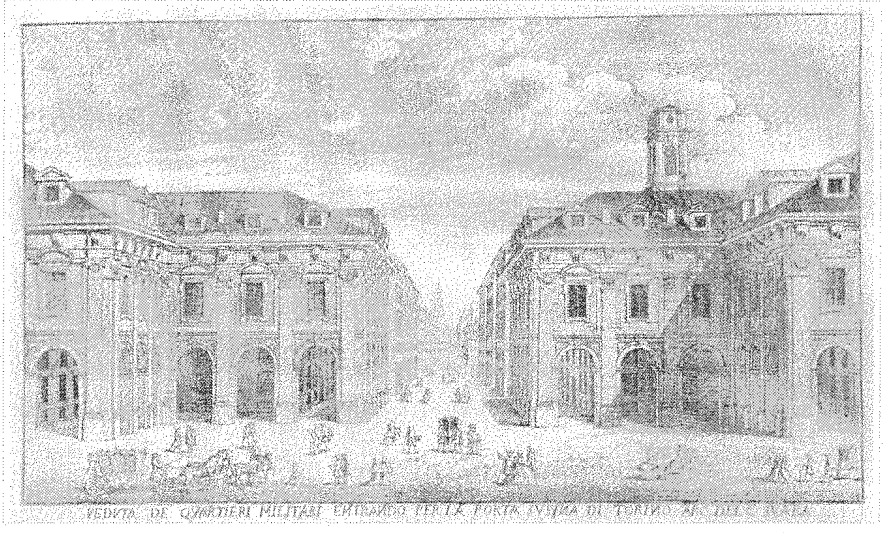
CITTA' DI TORINO

Divisione Servizi Tecnici ed Edilizia per i Servizi
Culturali - Sociali - Commerciali
Settore Edifici per la Cultura
Piazza Corpus Domini 17/E - 10122 Torino

# RECUPERO FUNZIONALE DELL'EDIFICIO DI VIA DEL CARMINE 14 AD USO ARCHIVI ED ATTIVITA' CULTURALI



## PROGETTO ESECUTIVO

| | |
|---|---|
| Responsabile Unico di Procedimento e Dirigente del Settore | Arch. Rosalba Stura |
| Progettista opere architettoniche | Arch. Emanuela Lavezzo |
| Progettista opere strutturali | Ing. Gianfranco Giovagnetti |
| Progettista opere impiantistiche | Ing. Alfonso Famà |
| Progettista della sicurezza - Collaboratore alle opere strutturali | Ing. Flavio Aquilano |
| Supporto al R.U.P. per le opere strutturali | Ing. Elena Grillone |
| Collaboratore progetto opere architettoniche e strutturali | Geom. Bartolo Saullo |
| Collaboratore progetto opere architettoniche e sicurezza | Geom. Fabrizio Passantino |
| Collaboratore progetto opere architettoniche | Arch. Michelina Pirrone |
| Collaboratori progetto opere impiantistiche | P.I. Francesco Ferrari<br>P.I. Maurizio Genovese |

## PROGETTO OPERE STRUTTURALI

SCALA

SCALA PLOT

## TABULATI RELAZIONE DI CALCOLO

| REV | MODIFICHE | DATA | DISEGNATORE |
|---|---|---|---|
| | Prima Revisione | 02/09/2010 | |

# Verifiche della sicurezza in condizioni di Progetto – Verifica travi 3° P SLU-SLV

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **29** Tabella: **Tabella travi**
Descrizione: **Travi 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Verifica in ottemperanza alle NTC2008
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 14580 NF 15501 SEZ. Rp B= 50.0 H= 80.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 10.0000 16.2500 7.6500 33.9000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1B | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1C | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1D | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1E | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1F | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1G | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1H | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1I | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1J | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1K | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1L | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1M | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1N | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1O | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 1P | 0 | 561 | 16440 | 51 | -94 | -575 | -16140 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.89 | 0.14 | 1.34 | 5.96 | 0.04 | 11.2 |
| 2 | 0 | 849 | 24230 | 84 | -151 | -825 | -23490 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.88 | 0.20 | 1.97 | 8.78 | 0.06 | 11.2 |
| apost= -- aant= 10.78 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1B | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1C | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1D | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1E | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1F | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1G | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1H | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1I | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1J | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1K | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1L | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1M | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1N | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1O | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 1P | 36 | 561 | 15332 | 51 | -94 | -593 | -10432 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.77 | 0.13 | 1.25 | 5.56 | 0.04 | 11.2 |
| 2 | 36 | 849 | 22592 | 84 | -151 | -856 | -15078 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.84 | 0.19 | 1.84 | 8.19 | 0.06 | 11.2 |
| apost= -- aant= 10.78 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1B | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1C | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1D | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1E | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1F | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1G | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1H | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1I | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1J | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1K | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1L | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1M | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1N | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1O | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 1P | 72 | 561 | 14223 | 51 | -94 | -612 | -5123 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.58 | 0.12 | 1.16 | 5.15 | 0.04 | 11.2 |
| 2 | 72 | 849 | 20953 | 84 | -151 | -886 | -7254 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.82 | 0.18 | 1.71 | 7.59 | 0.06 | 11.2 |
| apost= -- aant= 10.78 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1B | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1C | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1D | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1E | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1F | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1G | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1H | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1I | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1J | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1L | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1M | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1N | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1O | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 1P | 108 | 561 | 13115 | 51 | -94 | -630 | -211 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.14 | 0.11 | 1.07 | 4.75 | 0.04 | 13.4 |
| 2 | 108 | 849 | 19315 | 84 | -151 | -916 | -19 | 3.08 | 13.85 | 3.08 | 13.85 | 2 | 0.20 | 0.16 | 1.58 | 7.00 | 0.06 | 13.4 |

apost= --  aant= 10.78 ainf= --  asup= 10.78 staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1B | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1C | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1D | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1E | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1F | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1G | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1H | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1I | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1J | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1K | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1L | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1M | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1N | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1O | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 1P | 144 | 561 | 12006 | 51 | -94 | -649 | 4302 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.49 | 0.10 | 0.99 | 0.00 | 0.00 | 13.4 |
| 2 | 144 | 849 | 17677 | 84 | -151 | -946 | 6627 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.75 | 0.15 | 1.45 | 6.40 | 0.06 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1B | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1C | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1D | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1E | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1F | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1G | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1H | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1I | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1J | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1K | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1L | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1M | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1N | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1O | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 1P | 180 | 561 | 10898 | 51 | -94 | -667 | 8417 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.94 | 0.09 | 0.90 | 0.00 | 0.00 | 13.4 |
| 2 | 180 | 849 | 16038 | 84 | -151 | -977 | 12684 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.95 | 0.14 | 1.32 | 5.81 | 0.06 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1B | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1C | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1D | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1E | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1F | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1G | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1H | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1I | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1J | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1K | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1L | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1M | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1N | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1O | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 1P | 216 | 561 | 9790 | 51 | -94 | -685 | 12134 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.08 | 0.81 | 0.00 | 0.00 | 13.4 |
| 2 | 216 | 849 | 14400 | 84 | -151 | -1007 | 18153 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.81 | 0.12 | 1.19 | 5.22 | 0.06 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1B | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1C | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1D | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1E | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1F | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1G | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1H | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1I | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1J | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1K | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1L | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1M | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1N | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1O | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1P | 252 | 561 | 8681 | 51 | -94 | -704 | 15453 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 2 | 252 | 849 | 12762 | 84 | -151 | -1037 | 23033 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.11 | 1.05 | 4.62 | 0.06 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1B | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1C | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1D | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1F | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1G | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1H | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1I | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1J | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1K | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1L | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1M | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1N | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1O | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1P | 287 | 561 | 7573 | 51 | -94 | -722 | 18373 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.82 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 2 | 287 | 849 | 11124 | 84 | -151 | -1067 | 27324 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.87 | 0.10 | 0.87 | 0.00 | 0.00 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1B | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1C | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1D | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1E | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1F | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1G | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1H | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1I | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1J | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1K | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1L | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1M | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1N | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1O | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1P | 323 | 561 | 6464 | 51 | -94 | -741 | 20896 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.06 | 0.54 | 0.00 | 0.00 | 13.4 |
| 2 | 323 | 849 | 9485 | 84 | -151 | -1098 | 31026 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.99 | 0.08 | 0.75 | 0.00 | 0.00 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1B | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1C | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1D | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1E | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1F | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1G | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1H | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1I | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1J | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1K | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1L | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1M | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1N | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1O | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 1P | 359 | 561 | 5356 | 51 | -94 | -759 | 23020 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.85 | 0.05 | 0.45 | 0.00 | 0.00 | 13.4 |
| 2 | 359 | 849 | 7847 | 84 | -151 | -1128 | 34140 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.96 | 0.07 | 0.61 | 0.00 | 0.00 | 13.4 |

apost= --  aant= 10.78 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 2**  NI 15501  NF 14635  SEZ.  Rp  B= 50.0  H= 80.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 10.0000  16.2500  7.6500  33.9000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1B | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1C | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1D | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1E | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1F | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1G | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1H | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1I | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1J | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1K | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1L | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1M | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1N | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1O | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 1P | 0 | -47 | -2622 | 547 | 1014 | 695 | 23640 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.87 | 0.05 | 0.54 | 0.00 | 0.00 | 13.4 |
| 2 | 0 | -53 | -4090 | 816 | 1608 | 1026 | 35100 | 13.85 | 4.62 | 13.85 | 3.08 | 2 | 0.97 | 0.08 | 0.83 | 0.00 | 0.00 | 13.4 |

apost= 10.78 aant= 1.54 ainf= 10.78 asup= --  staffe= 2 d  8 / 13.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1B | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1C | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1D | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1E | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1G | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1H | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1I | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1J | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1K | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1L | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1M | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1N | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1O | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 1P | 35 | -47 | -3687 | 547 | 1014 | 506 | 22551 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 13.4 |
| 2 | 35 | -53 | -5664 | 816 | 1608 | 744 | 33416 | 13.85 | 4.62 | 13.85 | 3.08 | 2 | 0.93 | 0.09 | 0.94 | 0.00 | 0.00 | 13.4 |

apost= 10.78 aant= 1.54 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1B | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1C | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1D | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1E | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1F | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1G | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1H | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1I | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1J | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1K | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1L | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1M | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1N | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1O | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 1P | 69 | -47 | -4752 | 547 | 1014 | 317 | 21094 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.72 | 0.00 | 0.00 | 13.4 |
| 2 | 69 | -53 | -7238 | 816 | 1608 | 462 | 31189 | 13.85 | 4.62 | 13.85 | 3.08 | 2 | 0.99 | 0.10 | 1.07 | 2.62 | 0.62 | 13.4 |

apost= 10.78 aant= 1.54 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1B | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1C | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1D | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1E | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1F | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1G | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1H | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1I | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1J | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1K | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1L | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1M | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1N | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1O | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 1P | 104 | -47 | -5816 | 547 | 1014 | 129 | 19270 | 13.85 | 3.08 | 13.85 | 3.08 | 2 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 13.4 |
| 2 | 104 | -53 | -8812 | 816 | 1608 | 180 | 28418 | 13.85 | 4.62 | 13.85 | 3.08 | 2 | 0.90 | 0.12 | 1.19 | 3.19 | 0.62 | 13.4 |

apost= 10.78 aant= 1.54 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1B | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1C | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1D | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1E | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1F | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1G | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1H | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1I | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1J | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1K | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1L | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1M | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1N | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1O | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 1P | 138 | -47 | -6881 | 547 | 1014 | -60 | 17078 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.08 | 0.89 | 0.00 | 0.00 | 13.4 |
| 2 | 138 | -53 | -10386 | 816 | 1608 | -102 | 25103 | 4.62 | 13.85 | 13.85 | 3.08 | 2 | 0.92 | 0.13 | 1.35 | 3.76 | 0.62 | 13.4 |

apost= 1.54 aant= 10.78 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1B | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1C | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1D | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1E | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1F | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1G | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1H | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1I | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1J | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1K | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1L | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1M | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1N | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1O | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 1P | 173 | -47 | -7946 | 547 | 1014 | -249 | 14518 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.79 | 0.09 | 0.97 | 0.00 | 0.00 | 13.4 |
| 2 | 173 | -53 | -11960 | 816 | 1608 | -384 | 21245 | 4.62 | 13.85 | 13.85 | 3.08 | 2 | 0.93 | 0.14 | 1.49 | 4.33 | 0.62 | 13.4 |

apost= 1.54 aant= 10.78 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1B | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1C | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1D | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1E | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1F | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1G | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1H | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1I | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1J | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1K | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1L | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1M | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1N | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1O | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 1P | 207 | -47 | -9011 | 547 | 1014 | -438 | 11591 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.84 | 0.10 | 1.06 | 3.26 | 0.39 | 13.4 |
| 2 | 207 | -53 | -13534 | 817 | 1608 | -665 | 16843 | 4.62 | 13.85 | 13.85 | 3.08 | 2 | 0.92 | 0.16 | 1.61 | 4.90 | 0.62 | 13.4 |

apost= 1.54 aant= 10.78 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1B | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1C | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1D | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1E | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1F | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1G | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1H | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1I | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1J | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1K | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1L | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1M | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1N | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1O | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 1P | 242 | -47 | -10076 | 547 | 1014 | -627 | 8296 | 3.08 | 13.85 | 13.85 | 3.08 | 2 | 0.90 | 0.11 | 1.14 | 3.65 | 0.39 | 13.4 |
| 2 | 242 | -53 | -15108 | 816 | 1608 | -947 | 11898 | 4.62 | 13.85 | 13.85 | 3.08 | 2 | 0.86 | 0.17 | 1.74 | 5.47 | 0.62 | 13.4 |

apost= 1.54 aant= 10.78 ainf= 10.78 asup= -- staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1B | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1C | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1D | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1E | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1F | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1G | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1H | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1I | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1J | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1K | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1L | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1M | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1N | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1O | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 1P | 276 | -47 | -11140 | 547 | 1014 | -815 | 4634 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.50 | 0.12 | 1.22 | 4.04 | 0.39 | 11.2 |
| 2 | 276 | -53 | -16682 | 816 | 1608 | -1229 | 6409 | 4.62 | 13.85 | 13.85 | 7.70 | 2 | 0.69 | 0.18 | 1.86 | 6.04 | 0.62 | 11.2 |

apost= 1.54 aant= 10.78 ainf= 10.78 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1B | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1C | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1D | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1E | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1F | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1G | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1H | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1I | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1J | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1K | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1L | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1M | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1N | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1O | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 1P | 311 | -47 | -12205 | 547 | 1014 | -1004 | 604 | 3.08 | 13.85 | 13.85 | 7.70 | 2 | 0.18 | 0.13 | 1.31 | 4.42 | 0.39 | 11.2 |
| 2 | 311 | -53 | -18256 | 816 | 1608 | -1511 | 377 | 4.62 | 13.85 | 13.85 | 7.70 | 2 | 0.27 | 0.19 | 1.99 | 6.61 | 0.62 | 11.2 |

apost= 1.54 aant= 10.78 ainf= 10.78 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1B | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1C | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1D | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1E | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1F | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1G | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1H | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1I | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1J | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1K | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1L | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1M | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1O | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 1P | 345 | -47 | -13270 | 547 | 1014 | -1193 | -3794 | 3.08 | 13.85 | 7.70 | 13.85 | 2 | 0.41 | 0.14 | 1.39 | 4.81 | 0.39 | 11.2 |
| 2 | 345 | -53 | -19830 | 816 | 1608 | -1793 | -6199 | 4.62 | 13.85 | 7.70 | 13.85 | 2 | 0.67 | 0.21 | 2.11 | 7.18 | 0.62 | 11.2 |

apost= 1.54 aant= 10.78 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 3** NI 14451 NF 15498 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1B | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1C | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1D | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1E | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1F | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1G | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1H | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1I | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1J | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1K | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1L | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1M | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1N | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1O | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 1P | 0 | -649 | 11450 | -299 | -554 | -760 | -13810 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.16 | 1.61 | 4.77 | 0.32 | 11.2 |
| 2 | 0 | -956 | 17060 | -435 | -806 | -1109 | -20520 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.24 | 2.39 | 7.10 | 0.46 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1B | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1C | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1D | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1E | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1F | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1G | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1H | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1I | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1J | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1K | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1L | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1M | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1N | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1O | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 1P | 38 | -649 | 10610 | -299 | -554 | -648 | -9665 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.15 | 1.52 | 4.42 | 0.32 | 11.2 |
| 2 | 38 | -956 | 15815 | -435 | -806 | -946 | -14342 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.89 | 0.23 | 2.25 | 6.59 | 0.46 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1B | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1C | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1D | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1E | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1F | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1G | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1H | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1I | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1J | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1K | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1L | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1M | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1N | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1O | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 1P | 75 | -649 | 9769 | -299 | -554 | -535 | -5836 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.14 | 1.42 | 4.07 | 0.32 | 11.2 |
| 2 | 75 | -956 | 14571 | -435 | -806 | -782 | -8632 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.70 | 0.21 | 2.12 | 6.07 | 0.46 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1B | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1C | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1D | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1E | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1F | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1G | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1H | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1I | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1J | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1K | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1L | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1M | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1N | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 1P | 113 | -649 | 8929 | -299 | -554 | -423 | -2323 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.27 | 0.13 | 1.33 | 3.72 | 0.32 | 16.8 |
| 2 | 113 | -956 | 13326 | -435 | -806 | -619 | -3390 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.39 | 0.20 | 1.98 | 5.55 | 0.46 | 15.5 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 15.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1B | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1C | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1D | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1E | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1F | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1G | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1H | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1I | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1J | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1K | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1L | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1M | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1N | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1O | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 1P | 150 | -649 | 8089 | -299 | -554 | -310 | 875 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.08 | 0.12 | 1.23 | 3.37 | 0.32 | 16.8 |
| 2 | 150 | -956 | 12082 | -435 | -806 | -456 | 1385 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.18 | 1.84 | 5.03 | 0.46 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1B | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1C | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1D | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1E | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1F | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1G | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1H | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1I | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1J | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1K | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1L | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1M | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1N | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1O | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 1P | 188 | -649 | 7249 | -299 | -554 | -198 | 3756 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.44 | 0.11 | 1.14 | 3.02 | 0.32 | 16.8 |
| 2 | 188 | -956 | 10837 | -435 | -806 | -292 | 5691 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.17 | 1.70 | 4.51 | 0.46 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1B | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1C | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1D | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1E | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1F | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1G | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1H | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1I | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1J | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1K | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1L | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1M | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1N | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1O | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 1P | 226 | -649 | 6408 | -299 | -554 | -85 | 6322 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.10 | 1.05 | 2.67 | 0.32 | 16.8 |
| 2 | 226 | -956 | 9592 | -435 | -806 | -129 | 9531 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.15 | 1.56 | 3.99 | 0.46 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1B | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1C | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1D | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1E | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1F | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1G | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1H | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1I | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1J | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1K | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1L | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1M | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1N | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1O | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1P | 263 | -649 | 5568 | -299 | -554 | 27 | 8573 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 2 | 263 | -956 | 8348 | -435 | -806 | 34 | 12902 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.14 | 1.40 | 3.48 | 0.46 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1B | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1C | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1D | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1E | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1F | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1G | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1H | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1J | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1K | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1L | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1M | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1N | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1O | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1P | 301 | -649 | 4728 | -299 | -554 | 140 | 10508 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 2 | 301 | -956 | 7103 | -435 | -806 | 198 | 15806 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.98 | 0.12 | 1.26 | 2.96 | 0.46 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1B | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1C | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1D | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1E | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1F | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1G | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1H | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1I | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1J | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1K | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1L | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1M | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1N | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1O | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1P | 338 | -649 | 3887 | -299 | -554 | 252 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |
| 2 | 338 | -956 | 5859 | -435 | -806 | 361 | 18242 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.11 | 1.08 | 2.44 | 0.46 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1B | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1C | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1D | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1E | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1F | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1G | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1H | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1I | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1J | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1K | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1L | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1M | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1N | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1O | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1P | 376 | -649 | 3047 | -299 | -554 | 365 | 13430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |
| 2 | 376 | -956 | 4614 | -435 | -806 | 525 | 20210 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4** NI 15498 NF 15501 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -496 | 132 | -608 | 620 | -755 | 13130 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -732 | 78 | -902 | 960 | -1121 | 19770 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1B | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1C | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1D | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1E | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1F | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1G | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1H | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1I | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1K | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1L | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1M | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1N | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1O | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1P | 36 | -496 | -679 | -608 | 620 | -534 | 13031 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 2 | 36 | -732 | -1124 | -902 | 960 | -794 | 19580 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1B | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1C | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1D | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1E | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1F | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1G | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1H | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1I | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1J | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1K | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1L | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1M | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1N | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1O | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1P | 73 | -496 | -1490 | -608 | 620 | -313 | 12638 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.79 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 2 | 73 | -732 | -2326 | -902 | 960 | -466 | 18954 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1B | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1C | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1D | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1E | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1F | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1G | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1H | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1I | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1J | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1K | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1L | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1M | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1N | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1O | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1P | 109 | -496 | -2301 | -608 | 620 | -92 | 11950 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 2 | 109 | -732 | -3527 | -902 | 960 | -139 | 17892 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.90 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1B | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1C | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1D | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1E | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1F | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1G | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1H | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1I | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1J | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1K | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1L | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1M | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1N | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1O | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1P | 145 | -496 | -3112 | -608 | 620 | 129 | 10968 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 2 | 145 | -732 | -4729 | -902 | 960 | 189 | 16393 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.82 | 0.10 | 1.06 | 1.97 | 0.55 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1B | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1C | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1D | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1E | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1F | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1G | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1H | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1I | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1J | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1K | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1L | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1M | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1N | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1O | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1P | 182 | -496 | -3923 | -608 | 620 | 350 | 9691 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 2 | 182 | -732 | -5931 | -902 | 960 | 516 | 14458 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.90 | 0.12 | 1.23 | 2.47 | 0.55 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1B | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1C | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1E | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1F | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1G | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1H | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1I | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1J | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1K | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1L | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1M | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1N | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1O | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 1P | 218 | -496 | -4734 | -608 | 620 | 570 | 8120 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.09 | 0.90 | 0.00 | 0.00 | 16.8 |
| 2 | 218 | -732 | -7133 | -902 | 960 | 843 | 12087 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 1.00 | 0.13 | 1.38 | 2.97 | 0.55 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1B | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1C | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1D | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1E | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1F | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1G | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1H | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1I | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1J | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1K | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1L | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1M | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1N | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1O | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1P | 254 | -496 | -5545 | -608 | 620 | 791 | 6254 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 2 | 254 | -732 | -8335 | -902 | 960 | 1171 | 9280 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.15 | 1.51 | 3.47 | 0.55 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1B | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1C | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1D | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1E | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1F | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1G | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1H | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1I | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1J | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1K | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1L | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1M | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1N | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1O | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 1P | 290 | -496 | -6356 | -608 | 620 | 1012 | 4094 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.49 | 0.11 | 1.08 | 2.65 | 0.36 | 11.2 |
| 2 | 290 | -732 | -9536 | -902 | 960 | 1498 | 6037 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.73 | 0.16 | 1.64 | 3.97 | 0.55 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1B | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1C | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1D | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1E | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1F | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1G | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1H | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1I | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1J | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1K | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1L | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1M | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1N | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1O | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 1P | 327 | -496 | -7167 | -608 | 620 | 1233 | 1640 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.26 | 0.12 | 1.17 | 2.98 | 0.36 | 11.2 |
| 2 | 327 | -732 | -10738 | -902 | 960 | 1826 | 2357 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.39 | 0.18 | 1.78 | 4.47 | 0.55 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1B | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1C | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1D | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1E | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1F | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1G | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1H | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1I | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1J | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1K | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1L | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1M | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1N | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1O | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 1P | 363 | -496 | -7978 | -608 | 620 | 1454 | -1109 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.31 | 0.13 | 1.26 | 3.32 | 0.36 | 11.2 |
| 2 | 363 | -732 | -11940 | -902 | 960 | 2153 | -1759 | 9.24 | 4.62 | 4.62 | 9.24 | 2 | 0.46 | 0.19 | 1.91 | 4.97 | 0.55 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 5**  NI 14632  NF 15499  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.7650  5.5386  24.3036  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1B | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1C | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1D | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1E | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1F | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1G | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1H | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1I | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1J | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1K | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1L | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1M | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1N | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1O | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 1P | 0 | 1164 | 10470 | -134 | 422 | -268 | -1418 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.14 | 1.41 | 4.36 | 0.24 | 11.2 |
| 2 | 0 | 1664 | 15630 | -194 | 643 | -390 | -2081 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.33 | 0.22 | 2.11 | 6.51 | 0.37 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1B | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1C | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1D | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1E | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1F | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1G | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1H | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1I | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1J | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1K | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1L | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1M | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1N | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1O | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 1P | 30 | 1164 | 9818 | -134 | 422 | -228 | 1574 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.24 | 0.14 | 1.34 | 4.09 | 0.24 | 11.2 |
| 2 | 30 | 1664 | 14665 | -194 | 643 | -333 | 2387 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.37 | 0.21 | 2.00 | 6.11 | 0.37 | 11.2 |

apost= --  aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1B | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1C | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1D | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1E | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1F | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1G | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1H | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1I | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1J | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1K | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1L | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1M | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1N | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1O | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 1P | 59 | 1164 | 9166 | -134 | 422 | -189 | 4374 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.60 | 0.13 | 1.26 | 3.82 | 0.24 | 11.2 |
| 2 | 59 | 1664 | 13699 | -194 | 643 | -276 | 6571 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.89 | 0.19 | 1.90 | 5.70 | 0.37 | 11.2 |

apost= --  aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1B | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1C | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1D | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1E | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1F | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1G | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1H | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1I | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1J | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1K | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1L | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1M | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1N | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1O | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 1P | 89 | 1164 | 8514 | -134 | 422 | -149 | 6982 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.12 | 1.19 | 3.55 | 0.24 | 16.8 |
| 2 | 89 | 1664 | 12734 | -194 | 643 | -219 | 10470 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.79 | 5.30 | 0.37 | 16.6 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1B | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1C | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1D | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1E | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1F | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1G | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1H | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1I | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1J | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1K | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1L | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1M | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1N | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1O | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 1P | 118 | 1164 | 7862 | -134 | 422 | -110 | 9397 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.11 | 1.12 | 3.27 | 0.24 | 16.8 |
| 2 | 118 | 1664 | 11769 | -194 | 643 | -161 | 14084 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.17 | 1.68 | 4.90 | 0.37 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1B | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1C | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1D | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1E | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1F | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1G | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1H | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1I | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1J | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1K | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1L | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1M | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1N | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1O | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 1P | 148 | 1164 | 7210 | -134 | 422 | -70 | 11620 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.11 | 1.05 | 3.00 | 0.24 | 16.8 |
| 2 | 148 | 1664 | 10804 | -194 | 643 | -104 | 17414 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.91 | 0.16 | 1.50 | 4.50 | 0.37 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1B | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1C | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1D | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1E | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1F | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1G | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1H | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1I | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1J | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1K | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1L | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1M | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1N | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1O | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1P | 177 | 1164 | 6557 | -134 | 422 | -31 | 13651 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.10 | 0.98 | 0.00 | 0.00 | 16.8 |
| 2 | 177 | 1664 | 9838 | -194 | 643 | -47 | 20459 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.89 | 0.15 | 1.34 | 4.10 | 0.37 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1B | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1C | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1D | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1E | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1F | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1G | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1H | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1I | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1J | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1K | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1L | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1M | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1N | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1O | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1P | 207 | 1164 | 5905 | -134 | 422 | 9 | 15489 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 2 | 207 | 1664 | 8873 | -194 | 643 | 10 | 23219 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.87 | 0.14 | 1.21 | 3.69 | 0.37 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1B | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1C | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1D | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1E | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1F | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1G | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1H | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1I | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1J | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1K | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1L | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1N | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1O | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 1P | 236 | 1164 | 5253 | -134 | 422 | 49 | 17135 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 11.2 |
| 2 | 236 | 1664 | 7908 | -194 | 643 | 68 | 25694 | 9.24 | 3.08 | 10.78 | 6.16 | 2 | 0.96 | 0.13 | 1.12 | 3.29 | 0.37 | 11.2 |

apost= 6.16 aant= -- ainf= 7.70 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1B | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1C | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1D | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1E | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1F | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1G | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1H | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1I | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1J | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1K | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1L | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1M | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1N | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1O | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1P | 266 | 1164 | 4601 | -134 | 422 | 88 | 18589 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.96 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 2 | 266 | 1664 | 6942 | -194 | 643 | 125 | 27884 | 9.24 | 3.08 | 12.32 | 6.16 | 2 | 0.92 | 0.11 | 1.00 | 2.89 | 0.37 | 11.2 |

apost= 6.16 aant= -- ainf= 9.24 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1B | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1C | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1D | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1E | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1F | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1G | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1H | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1I | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1J | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1K | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1L | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1M | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1N | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1O | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1P | 295 | 1164 | 3949 | -134 | 422 | 128 | 19850 | 9.24 | 3.08 | 9.24 | 6.16 | 2 | 0.86 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 2 | 295 | 1664 | 5977 | -194 | 643 | 182 | 29790 | 9.24 | 3.08 | 12.32 | 6.16 | 2 | 0.98 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |

apost= 6.16 aant= -- ainf= 9.24 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 6** NI 15499 NF 14636 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.7650 5.5386 24.3036 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1B | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1C | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1D | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1E | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1F | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1G | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1H | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1I | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1J | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1K | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1L | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1M | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1N | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1O | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 1P | 0 | 483 | -4309 | -147 | 371 | -98 | 19660 | 3.08 | 9.24 | 9.24 | 6.16 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 11.2 |
| 2 | 0 | 656 | -6553 | -207 | 552 | -132 | 29530 | 3.08 | 9.24 | 12.32 | 6.16 | 2 | 0.96 | 0.11 | 0.91 | 0.00 | 0.00 | 11.2 |

apost= -- aant= 6.16 ainf= 9.24 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1B | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1C | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1D | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1E | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1F | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1G | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1H | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1I | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1J | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1K | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1L | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1M | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1O | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 1P | 27 | 483 | -4902 | -147 | 371 | -59 | 18423 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.94 | 0.08 | 0.73 | 0.00 | 0.00 | 11.2 |
| 2 | 27 | 656 | -7432 | -207 | 552 | -77 | 27651 | 3.08 | 9.24 | 12.32 | 6.16 | 2 | 0.90 | 0.12 | 0.99 | 0.00 | 0.00 | 11.2 |

apost= -- aant= 6.16 ainf= 9.24 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1B | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1C | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1D | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1E | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1F | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1G | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1H | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1I | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1J | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1K | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1L | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1M | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1N | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1O | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1P | 54 | 483 | -5495 | -147 | 371 | -19 | 17026 | 3.08 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.08 | 0.79 | 0.00 | 0.00 | 11.2 |
| 2 | 54 | 656 | -8310 | -207 | 552 | -21 | 25537 | 3.08 | 9.24 | 10.78 | 6.16 | 2 | 0.94 | 0.13 | 1.10 | 3.46 | 0.32 | 11.2 |

apost= -- aant= 6.16 ainf= 7.70 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1B | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1C | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1D | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1E | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1F | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1G | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1H | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1I | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1J | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1K | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1L | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1M | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1N | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1O | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1P | 81 | 483 | -6088 | -147 | 371 | 21 | 15470 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.99 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 2 | 81 | 656 | -9189 | -207 | 552 | 35 | 23186 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 1.00 | 0.14 | 1.23 | 3.83 | 0.32 | 11.2 |

apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1M | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1O | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 107 | 483 | -6681 | -147 | 371 | 60 | 13754 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 107 | 656 | -10068 | -207 | 552 | 90 | 20599 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.15 | 1.31 | 4.19 | 0.32 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1B | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1C | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1D | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1E | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1F | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1G | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1H | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1I | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1J | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1K | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1L | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1M | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1N | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1O | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 1P | 134 | 483 | -7274 | -147 | 371 | 100 | 11880 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.03 | 3.03 | 0.21 | 16.8 |
| 2 | 134 | 656 | -10946 | -207 | 552 | 146 | 17776 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.16 | 1.46 | 4.56 | 0.32 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1B | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1C | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1D | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1E | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1F | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1G | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1I | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1J | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1K | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1L | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1M | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1N | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1O | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 1P | 161 | 483 | -7868 | -147 | 371 | 139 | 9845 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.11 | 1.09 | 3.28 | 0.21 | 16.8 |
| 2 | 161 | 656 | -11825 | -207 | 552 | 201 | 14717 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.17 | 1.64 | 4.92 | 0.32 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1B | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1C | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1D | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1E | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1F | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1G | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1H | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1I | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1J | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1K | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1L | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1M | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1N | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1O | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 1P | 188 | 483 | -8461 | -147 | 371 | 179 | 7651 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.12 | 1.16 | 3.52 | 0.21 | 16.8 |
| 2 | 188 | 656 | -12704 | -207 | 552 | 257 | 11423 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.18 | 1.73 | 5.29 | 0.32 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1B | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1C | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1D | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1E | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1F | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1G | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1H | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1I | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1J | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1K | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1L | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1M | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1N | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1O | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 1P | 215 | 483 | -9054 | -147 | 371 | 219 | 5298 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.13 | 1.22 | 3.77 | 0.21 | 16.8 |
| 2 | 215 | 656 | -13583 | -207 | 552 | 313 | 7892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.19 | 1.83 | 5.66 | 0.32 | 16.0 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1B | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1C | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1D | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1E | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1F | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1G | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1H | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1I | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1J | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1K | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1L | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1M | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1N | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1O | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 1P | 242 | 483 | -9647 | -147 | 371 | 258 | 2786 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.37 | 0.13 | 1.29 | 4.02 | 0.21 | 16.8 |
| 2 | 242 | 656 | -14461 | -207 | 552 | 368 | 4125 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.54 | 0.20 | 1.93 | 6.02 | 0.32 | 15.1 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 15.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1B | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1C | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1D | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1E | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1F | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1G | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1H | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1I | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1J | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1K | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1L | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1M | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1N | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1O | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 1P | 269 | 483 | -10240 | -147 | 371 | 298 | 114 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.09 | 0.14 | 1.35 | 4.26 | 0.21 | 16.8 |
| 2 | 269 | 656 | -15340 | -207 | 552 | 424 | 122 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.21 | 2.02 | 6.39 | 0.32 | 14.3 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 14.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 7** NI 14447 NF 15500 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.2200 5.7528 24.9728 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1B | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1C | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1D | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1E | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1F | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1G | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1H | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1I | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1J | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1K | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1L | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1M | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1N | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1O | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 1P | 0 | 609 | 11250 | 151 | 248 | 524 | -11790 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.14 | 1.39 | 4.68 | 0.14 | 11.2 |
| 2 | 0 | 881 | 16720 | 231 | 374 | 795 | -17420 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.22 | 2.07 | 6.96 | 0.22 | 11.2 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1B | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1C | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1D | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1E | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1F | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1G | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1H | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1I | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1J | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1K | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1L | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1M | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1N | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1O | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 1P | 38 | 609 | 10397 | 151 | 248 | 467 | -7723 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.13 | 1.29 | 4.33 | 0.14 | 11.2 |
| 2 | 38 | 881 | 15456 | 231 | 374 | 708 | -11373 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.98 | 0.20 | 1.93 | 6.44 | 0.22 | 11.2 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1B | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1C | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1D | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1E | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1F | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1G | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1H | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1I | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1J | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1K | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1L | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1M | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1N | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1O | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 1P | 75 | 609 | 9544 | 151 | 248 | 410 | -3977 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.52 | 0.12 | 1.20 | 3.97 | 0.14 | 11.2 |
| 2 | 75 | 881 | 14192 | 231 | 374 | 622 | -5801 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.19 | 1.79 | 5.91 | 0.22 | 11.2 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1B | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1C | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1D | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1E | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1F | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1G | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1H | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1I | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1J | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1K | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1L | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1M | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1N | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1O | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 1P | 113 | 609 | 8692 | 151 | 248 | 354 | -551 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.11 | 0.11 | 1.11 | 3.62 | 0.14 | 16.8 |
| 2 | 113 | 881 | 12928 | 231 | 374 | 535 | -705 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.16 | 0.17 | 1.65 | 5.38 | 0.22 | 16.8 |

apost= 6.16 aant= -- ainf= -- asup= 6.16 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1B | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1D | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1E | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1F | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1G | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1H | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1I | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1J | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1K | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1L | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1M | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1N | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1O | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 1P | 150 | 609 | 7839 | 151 | 248 | 297 | 2555 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.10 | 1.01 | 3.26 | 0.14 | 16.8 |
| 2 | 150 | 881 | 11664 | 231 | 374 | 448 | 3917 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.53 | 0.16 | 1.51 | 4.86 | 0.22 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1B | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1C | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1D | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1E | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1F | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1G | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1H | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1I | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1J | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1K | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1L | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1M | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1N | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1O | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 1P | 188 | 609 | 6986 | 151 | 248 | 241 | 5340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.69 | 0.09 | 0.92 | 0.00 | 0.00 | 16.8 |
| 2 | 188 | 881 | 10400 | 231 | 374 | 361 | 8064 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.14 | 1.37 | 4.33 | 0.22 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1B | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1C | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1D | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1E | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1F | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1G | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1H | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1I | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1J | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1K | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1L | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1M | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1N | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1O | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1P | 226 | 609 | 6133 | 151 | 248 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.67 | 0.08 | 0.83 | 0.00 | 0.00 | 16.8 |
| 2 | 226 | 881 | 9136 | 231 | 374 | 274 | 11735 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.13 | 1.23 | 3.80 | 0.22 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1B | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1C | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1D | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1E | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1F | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1G | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1H | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1I | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1J | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1K | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1L | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1M | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1N | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1O | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1P | 263 | 609 | 5280 | 151 | 248 | 128 | 9949 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.07 | 0.73 | 0.00 | 0.00 | 16.8 |
| 2 | 263 | 881 | 7872 | 231 | 374 | 187 | 14931 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.11 | 1.09 | 3.28 | 0.22 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1B | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1C | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1D | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1E | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1F | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1G | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1H | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1I | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1J | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1K | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1L | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1M | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1N | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1O | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |
| 1P | 301 | 609 | 4428 | 151 | 248 | 71 | 11773 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.06 | 0.64 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 301 | 881 | 6608 | 231 | 374 | 101 | 17653 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.10 | 0.91 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1B | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1C | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1D | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1E | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1F | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1G | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1H | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1I | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1J | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1K | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1L | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1M | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1N | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1O | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1P | 338 | 609 | 3575 | 151 | 248 | 14 | 13277 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 2 | 338 | 881 | 5344 | 231 | 374 | 14 | 19899 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1B | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1C | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1D | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1E | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1F | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1G | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1H | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1I | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1J | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1K | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1L | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1M | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1N | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1O | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1P | 376 | 609 | 2722 | 151 | 248 | -42 | 14460 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 2 | 376 | 881 | 4080 | 231 | 374 | -73 | 21670 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 8** NI 15500 NF 14777 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.2200 5.7528 24.9728 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 769 | -2338 | 563 | -90 | 762 | 14630 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 1117 | -3629 | 841 | -143 | 1139 | 21920 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1B | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1C | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1D | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1E | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1F | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1G | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1H | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1I | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1J | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1K | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1L | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1M | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1N | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1O | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1P | 36 | 769 | -3161 | 563 | -90 | 557 | 13632 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |
| 2 | 36 | 1117 | -4849 | 841 | -143 | 834 | 20382 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1B | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1C | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1D | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1E | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1F | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1G | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1H | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1I | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1J | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1K | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1L | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1M | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1N | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1O | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1P | 73 | 769 | -3984 | 563 | -90 | 353 | 12335 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 2 | 73 | 1117 | -6069 | 841 | -143 | 528 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.08 | 0.71 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1B | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1C | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1D | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1E | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1F | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1G | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1H | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1I | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1J | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1K | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1L | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1M | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1N | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1O | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1P | 109 | 769 | -4808 | 563 | -90 | 148 | 10740 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 2 | 109 | 1117 | -7289 | 841 | -143 | 223 | 15976 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1B | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1C | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1D | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1E | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1F | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1G | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1H | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1I | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1J | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1K | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1L | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1M | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1N | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1O | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1P | 145 | 769 | -5631 | 563 | -90 | -56 | 8845 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.76 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 2 | 145 | 1117 | -8509 | 841 | -143 | -82 | 13109 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.02 | 3.54 | 0.08 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1B | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1C | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1D | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1E | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1F | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1G | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1H | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1I | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1J | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1K | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1L | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1M | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1N | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1O | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 1P | 182 | 769 | -6454 | 563 | -90 | -261 | 6652 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.08 | 0.76 | 0.00 | 0.00 | 16.8 |
| 2 | 182 | 1117 | -9730 | 841 | -143 | -388 | 9799 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.16 | 4.05 | 0.08 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1B | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1C | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1D | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1E | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1F | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1G | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1H | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1I | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1J | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1K | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1M | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1N | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1O | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1P | 218 | 769 | -7277 | 563 | -90 | -465 | 4160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.55 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |
| 2 | 218 | 1117 | -10950 | 841 | -143 | -693 | 6045 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.80 | 0.14 | 1.29 | 4.56 | 0.08 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1B | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1C | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1D | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1E | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1F | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1G | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1H | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1I | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1J | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1K | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1L | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1M | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1N | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1O | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1P | 254 | 769 | -8100 | 563 | -90 | -670 | 1369 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.20 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 2 | 254 | 1117 | -12170 | 841 | -143 | -998 | 1848 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.28 | 0.15 | 1.43 | 5.07 | 0.08 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1B | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1C | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1D | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1E | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1F | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1G | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1H | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1I | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1J | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1K | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1L | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1M | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1N | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1O | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 1P | 290 | 769 | -8924 | 563 | -90 | -874 | -1721 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.04 | 3.72 | 0.05 | 11.2 |
| 2 | 290 | 1117 | -13390 | 841 | -143 | -1303 | -2791 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.40 | 0.16 | 1.56 | 5.58 | 0.08 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1B | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1C | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1D | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1E | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1F | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1G | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1H | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1I | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1J | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1K | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1L | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1M | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1N | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1O | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 1P | 327 | 769 | -9747 | 563 | -90 | -1079 | -5110 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.67 | 0.12 | 1.13 | 4.06 | 0.05 | 11.2 |
| 2 | 327 | 1117 | -14610 | 841 | -143 | -1609 | -7874 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.18 | 1.69 | 6.08 | 0.08 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1B | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1C | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1D | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1E | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1F | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1G | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1H | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1I | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1J | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1K | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1L | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1M | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1N | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1O | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 1P | 363 | 769 | -10570 | 563 | -90 | -1283 | -8797 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.13 | 1.22 | 4.40 | 0.05 | 11.2 |
| 2 | 363 | 1117 | -15830 | 841 | -143 | -1914 | -13400 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.19 | 1.83 | 6.59 | 0.08 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 9**  NI 14849  NF 15500  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.0250  5.6610  20.6860  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1B | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1C | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1D | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1E | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1F | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1G | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1H | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1I | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1J | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1K | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1L | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1M | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1N | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1O | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 1P | 0 | 1616 | 4255 | -124 | -22 | -180 | -3361 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.85 | 0.13 | 1.00 | 3.21 | 0.03 | 9.3 |
| 2 | 0 | 2432 | 6467 | -190 | -26 | -276 | -5107 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.86 | 0.19 | 1.51 | 4.88 | 0.04 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | 1616 | 3584 | -124 | -22 | -134 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.85 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | 2432 | 5446 | -190 | -26 | -206 | -2937 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.78 | 0.16 | 1.28 | 4.11 | 0.04 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 73 | 1616 | 2913 | -124 | -22 | -89 | -750 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 73 | 2432 | 4425 | -190 | -26 | -137 | -1139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.13 | 1.05 | 3.34 | 0.04 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 109 | 1616 | 2242 | -124 | -22 | -44 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 109 | 2432 | 3404 | -190 | -26 | -68 | 287 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.10 | 0.82 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1B | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1C | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1D | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1E | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1F | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1H | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1I | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1J | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1K | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1L | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1M | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1N | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1O | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1P | 146 | 1616 | 1571 | -124 | -22 | 1 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 2 | 146 | 2432 | 2383 | -190 | -26 | 1 | 1341 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 182 | 1616 | 900 | -124 | -22 | 47 | 1333 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 182 | 2432 | 1362 | -190 | -26 | 71 | 2023 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.57 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1B | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1C | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1D | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1E | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1F | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1G | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1H | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1I | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1J | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1K | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1L | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1M | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1N | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1O | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1P | 219 | 1616 | 228 | -124 | -22 | 92 | 1538 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 2 | 219 | 2432 | 341 | -190 | -26 | 140 | 2334 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.64 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1B | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1C | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1D | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1E | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1F | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1G | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1H | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1I | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1J | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1K | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1L | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1M | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1N | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1O | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1P | 255 | 1616 | -443 | -124 | -22 | 137 | 1499 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 2 | 255 | 2432 | -680 | -190 | -26 | 209 | 2272 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.02 | 0.22 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1B | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1C | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1D | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1E | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1F | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1G | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1H | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1I | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1J | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1K | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1L | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1M | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1N | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1O | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1P | 291 | 1616 | -1114 | -124 | -22 | 182 | 1215 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 2 | 291 | 2432 | -1701 | -190 | -26 | 279 | 1838 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1B | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1C | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1D | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1E | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1F | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1G | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1H | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1I | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1J | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1K | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1L | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1M | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1N | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1O | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 1P | 328 | 1616 | -1785 | -124 | -22 | 227 | 687 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.45 | 0.00 | 0.00 | 9.3 |
| 2 | 328 | 2432 | -2722 | -190 | -26 | 348 | 1033 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.08 | 0.67 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1B | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1C | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1D | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1E | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1F | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1G | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1H | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1I | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1J | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1K | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1L | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1M | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1N | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1O | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 1P | 364 | 1616 | -2456 | -124 | -22 | 273 | -86 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.07 | 0.60 | 0.00 | 0.00 | 9.3 |
| 2 | 364 | 2432 | -3743 | -190 | -26 | 417 | -145 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.11 | 0.90 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 10** NI 15500 NF 15499 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 12.0250 5.6610 20.6860 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1B | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1C | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1D | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1E | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1F | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1G | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1H | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1I | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1J | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1K | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1L | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1M | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1N | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1O | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 1P | 0 | 2029 | 2604 | -284 | -196 | -531 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.11 | 1.05 | 1.96 | 0.30 | 9.3 |
| 2 | 0 | 3042 | 3966 | -426 | -285 | -795 | -662 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.17 | 1.57 | 2.99 | 0.44 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | 2029 | 1948 | -284 | -196 | -430 | 388 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | 3042 | 2968 | -426 | -285 | -643 | 573 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.14 | 1.35 | 2.24 | 0.44 | 9.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | 2029 | 1291 | -284 | -196 | -329 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | 3042 | 1969 | -426 | -285 | -491 | 1452 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.11 | 1.12 | 1.48 | 0.44 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | 2029 | 635 | -284 | -196 | -228 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | 3042 | 971 | -426 | -285 | -340 | 1976 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | 2029 | -21 | -284 | -196 | -127 | 1417 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | 3042 | -27 | -426 | -285 | -188 | 2144 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.07 | 0.77 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | 2029 | -678 | -284 | -196 | -26 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | 3042 | -1025 | -426 | -285 | -36 | 1956 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1B | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1C | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1D | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1E | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1F | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1G | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1H | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1I | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1J | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1K | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1L | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1M | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1N | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1O | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 214 | 2029 | -1334 | -284 | -196 | 76 | 934 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 2 | 214 | 3042 | -2024 | -426 | -285 | 115 | 1413 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.45 | 0.12 | 1.14 | 1.53 | 0.44 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | 2029 | -1990 | -284 | -196 | 177 | 343 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | 3042 | -3022 | -426 | -285 | 267 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.14 | 1.36 | 2.28 | 0.44 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1B | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1C | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1D | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1E | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1F | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1G | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1H | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1I | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1J | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1K | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1L | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1M | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1N | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1O | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 1P | 285 | 2029 | -2646 | -284 | -196 | 278 | -483 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.06 | 2.00 | 0.30 | 22.3 |
| 2 | 285 | 3042 | -4020 | -426 | -285 | 419 | -740 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.30 | 0.17 | 1.58 | 3.03 | 0.44 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1B | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1C | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1D | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1E | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1F | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1G | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1H | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1I | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1J | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1K | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1L | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1M | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1N | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1O | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 1P | 321 | 2029 | -3303 | -284 | -196 | 379 | -1543 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.13 | 1.21 | 2.49 | 0.30 | 9.3 |
| 2 | 321 | 3042 | -5019 | -426 | -285 | 570 | -2350 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.67 | 0.20 | 1.80 | 3.78 | 0.44 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1B | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1C | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1D | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1E | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1F | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1G | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1H | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1I | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1J | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1K | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1L | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1M | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1N | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1O | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 1P | 356 | 2029 | -3959 | -284 | -196 | 480 | -2836 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.15 | 1.35 | 2.99 | 0.30 | 9.3 |
| 2 | 356 | 3042 | -6017 | -426 | -285 | 722 | -4316 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.76 | 0.23 | 2.03 | 4.54 | 0.44 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 11** NI 15499 NF 15498 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.7000 5.5080 20.2080 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | -- | | | | | | | | | | | | | | | | | ----- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 2016 | 4300 | 397 | -4 | 706 | -2887 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 3029 | 6513 | 583 | -20 | 1037 | -4407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.77 | 0.19 | 1.50 | 4.91 | 0.03 | 9.3 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1B | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1C | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1D | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1E | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1F | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1G | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1H | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1I | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1J | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1K | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1L | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1M | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1N | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1O | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 1P | 35 | 2016 | 3678 | 397 | -4 | 569 | -1510 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.43 | 0.11 | 0.83 | 0.00 | 0.00 | 9.3 |
| 2 | 35 | 3029 | 5568 | 583 | -20 | 836 | -2321 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.16 | 1.29 | 4.20 | 0.03 | 9.3 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 69 | 2016 | 3057 | 397 | -4 | 432 | -347 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 69 | 3029 | 4623 | 583 | -20 | 635 | -562 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.14 | 1.08 | 3.49 | 0.03 | 22.3 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 104 | 2016 | 2435 | 397 | -4 | 295 | 601 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 104 | 3029 | 3678 | 583 | -20 | 433 | 871 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.11 | 0.87 | 0.00 | 0.00 | 22.3 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 138 | 2016 | 1814 | 397 | -4 | 158 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 138 | 3029 | 2733 | 583 | -20 | 232 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.58 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1B | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1C | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1D | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1E | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1F | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1G | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1H | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1I | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1J | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1K | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1L | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1M | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1N | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1O | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1P | 173 | 2016 | 1192 | 397 | -4 | 21 | 1853 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.51 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 2 | 173 | 3029 | 1788 | 583 | -20 | 31 | 2759 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.76 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1B | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1C | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1D | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1E | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1F | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1G | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1H | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1I | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1J | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1K | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1L | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1M | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1N | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1O | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1P | 207 | 2016 | 570 | 397 | -4 | -116 | 2158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 2 | 207 | 3029 | 843 | 583 | -20 | -170 | 3213 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.87 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1B | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1C | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1D | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1E | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1F | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1G | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1H | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1I | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1J | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1K | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1L | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1M | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1N | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1O | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 1P | 242 | 2016 | -51 | 397 | -4 | -253 | 2247 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.01 | 0.09 | 0.00 | 0.00 | 22.3 |
| 2 | 242 | 3029 | -102 | 583 | -20 | -371 | 3341 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1B | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1C | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1D | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1E | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1F | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1G | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1H | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1I | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1J | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1K | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1L | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1M | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1N | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1O | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1P | 276 | 2016 | -673 | 397 | -4 | -390 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.57 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 2 | 276 | 3029 | -1047 | 582 | -20 | -572 | 3142 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1B | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1C | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1D | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1F | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1G | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1H | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1I | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1J | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1K | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1L | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1M | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1N | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1O | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 1P | 311 | 2016 | -1294 | 397 | -4 | -527 | 1782 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.30 | 0.00 | 0.00 | 9.3 |
| 2 | 311 | 3029 | -1992 | 583 | -20 | -774 | 2618 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.73 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1B | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1C | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1D | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1E | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1F | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1G | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1H | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1I | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1J | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1K | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1L | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1M | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1N | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1O | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1P | 345 | 2016 | -1916 | 397 | -4 | -664 | 1228 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.06 | 0.44 | 0.00 | 0.00 | 9.3 |
| 2 | 345 | 3029 | -2937 | 583 | -20 | -975 | 1767 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.53 | 0.09 | 0.70 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 12**  NI 15498  NF 14579  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.7000  5.5080  20.2080  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 1707 | 999 | 244 | 290 | 455 | 2402 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.92 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 2561 | 1599 | 359 | 426 | 671 | 3533 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.92 | 0.13 | 1.38 | 1.21 | 0.65 | 9.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | 1707 | 352 | 244 | 290 | 367 | 2645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.07 | 0.77 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | 2561 | 616 | 359 | 426 | 541 | 3931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.68 | 0.10 | 1.14 | 0.46 | 0.65 | 9.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 72 | 1707 | -295 | 244 | 290 | 280 | 2655 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 72 | 2561 | -368 | 359 | 426 | 412 | 3976 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.10 | 1.09 | 0.37 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | 1707 | -942 | 244 | 290 | 192 | 2433 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.63 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | 2561 | -1352 | 359 | 426 | 283 | 3667 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.95 | 0.12 | 1.32 | 1.02 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1B | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1C | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1D | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1E | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1F | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1G | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1H | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1I | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1J | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1K | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1L | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1M | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1N | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1O | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 1P | 144 | 1707 | -1589 | 244 | 290 | 105 | 1978 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.10 | 1.05 | 1.20 | 0.45 | 22.3 |
| 2 | 144 | 2561 | -2335 | 359 | 426 | 154 | 3005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.80 | 0.15 | 1.54 | 1.76 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1B | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1C | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1D | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1E | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1F | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1G | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1H | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1I | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1J | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1K | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1L | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1M | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1N | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1O | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 1P | 180 | 1707 | -2236 | 244 | 290 | 17 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.69 | 0.45 | 22.3 |
| 2 | 180 | 2561 | -3318 | 359 | 426 | 25 | 1989 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.57 | 0.18 | 1.76 | 2.50 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1B | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1C | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1D | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1E | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1F | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1G | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1H | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1I | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1J | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1K | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1L | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1M | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1N | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1O | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 1P | 216 | 1707 | -2883 | 244 | 290 | -71 | 371 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.14 | 1.34 | 2.17 | 0.45 | 22.3 |
| 2 | 216 | 2561 | -4302 | 359 | 426 | -104 | 620 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.21 | 1.98 | 3.24 | 0.65 | 22.1 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1B | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1C | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1D | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1E | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1F | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1G | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1H | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1I | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1J | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1K | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1L | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1M | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1N | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1O | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 1P | 252 | 1707 | -3530 | 244 | 290 | -158 | -781 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.16 | 1.48 | 2.66 | 0.45 | 22.3 |
| 2 | 252 | 2561 | -5286 | 359 | 426 | -233 | -1102 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.24 | 2.20 | 3.99 | 0.65 | 19.0 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 19.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1B | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1C | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1D | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1E | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1F | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1G | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1H | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1I | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1J | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1K | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1L | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1M | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1N | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1O | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 1P | 287 | 1707 | -4177 | 244 | 290 | -246 | -2166 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.18 | 1.63 | 3.15 | 0.45 | 22.3 |
| 2 | 287 | 2561 | -6269 | 359 | 426 | -362 | -3178 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.84 | 0.26 | 2.42 | 4.73 | 0.65 | 16.7 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 16.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1B | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1C | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1D | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1E | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1F | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1G | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1H | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1I | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1J | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1K | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1L | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1M | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1N | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1O | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 1P | 323 | 1707 | -4824 | 244 | 290 | -334 | -3783 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.20 | 1.77 | 3.64 | 0.45 | 9.3 |
| 2 | 323 | 2561 | -7253 | 359 | 426 | -491 | -5607 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.94 | 0.29 | 2.64 | 5.47 | 0.65 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1B | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1C | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1D | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1E | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1F | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1G | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1H | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1I | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1J | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1K | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1L | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1M | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1N | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1O | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 1P | 359 | 1707 | -5471 | 244 | 290 | -421 | -5632 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.93 | 0.21 | 1.92 | 4.13 | 0.45 | 9.3 |
| 2 | 359 | 2561 | -8236 | 359 | 426 | -620 | -8390 | 3.08 | 4.62 | 4.62 | 7.70 | 2 | 0.84 | 0.32 | 2.86 | 6.21 | 0.65 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 13**  NI 14737  NF 14778  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  16.2500  7.6500  28.7125  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1B | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1C | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1D | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1E | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1F | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1G | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1H | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1I | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1J | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1K | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1L | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1M | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1N | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1O | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 1P | 0 | 638 | 9403 | 244 | -197 | 883 | -7524 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.18 | 1.64 | 5.04 | 0.17 | 11.2 |
| 2 | 0 | 878 | 14220 | 360 | -294 | 1300 | -11320 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.95 | 0.27 | 2.47 | 7.63 | 0.26 | 11.2 |

apost= 3.08 aant= -- ainf= 1.54 asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1B | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1C | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1D | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1E | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1F | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1G | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1H | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1I | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1J | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1K | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1L | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1M | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1N | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1O | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 1P | 74 | 638 | 7515 | 244 | -197 | 704 | -1299 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.24 | 0.15 | 1.35 | 4.03 | 0.17 | 19.1 |
| 2 | 74 | 878 | 11361 | 360 | -294 | 1035 | -1908 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.22 | 2.04 | 6.10 | 0.26 | 15.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1B | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1C | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1D | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1E | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1F | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1G | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1H | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1I | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1J | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1K | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1L | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1M | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1N | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1O | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 1P | 147 | 638 | 5628 | 244 | -197 | 525 | 3536 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.12 | 1.07 | 3.02 | 0.17 | 19.1 |
| 2 | 147 | 878 | 8502 | 360 | -294 | 770 | 5400 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.17 | 1.61 | 4.56 | 0.26 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 221 | 638 | 3740 | 244 | -197 | 345 | 6982 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 221 | 878 | 5643 | 360 | -294 | 504 | 10604 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.89 | 0.13 | 1.10 | 3.03 | 0.26 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | 638 | 1852 | 244 | -197 | 166 | 9040 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | 878 | 2784 | 360 | -294 | 239 | 13704 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.92 | 0.08 | 0.68 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1B | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1C | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1D | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1E | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1F | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1G | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1H | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1I | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1J | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1K | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1L | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1M | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1N | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1O | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 1P | 368 | 638 | -36 | 244 | -197 | -13 | 9708 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 19.1 |
| 2 | 368 | 878 | -75 | 360 | -294 | -26 | 14700 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.99 | 0.03 | 0.37 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1B | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1C | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1D | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1E | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1F | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1G | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1H | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1I | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1J | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1K | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1L | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1M | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1N | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1O | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1P | 442 | 638 | -1923 | 244 | -197 | -193 | 8987 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.51 | 0.00 | 0.00 | 19.1 |
| 2 | 442 | 878 | -2934 | 360 | -294 | -291 | 13592 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.92 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1B | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1C | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1D | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1E | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1F | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1G | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1H | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1I | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1J | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1K | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1L | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1M | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1N | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1O | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1P | 515 | 638 | -3811 | 244 | -197 | -372 | 6878 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 2 | 515 | 878 | -5793 | 360 | -294 | -556 | 10380 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.12 | 3.11 | 0.26 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1B | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1C | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1D | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1E | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1F | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1G | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1H | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1I | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1J | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1K | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1L | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1M | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1N | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1O | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 1P | 589 | 638 | -5699 | 244 | -197 | -551 | 3379 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.12 | 1.08 | 3.06 | 0.17 | 19.1 |
| 2 | 589 | 878 | -8652 | 360 | -294 | -822 | 5064 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.18 | 1.63 | 4.64 | 0.26 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1B | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1C | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1D | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1E | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1F | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1G | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1H | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1J | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1K | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1L | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1M | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1N | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1O | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 1P | 662 | 638 | -7586 | 244 | -197 | -731 | -1509 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.27 | 0.15 | 1.36 | 4.07 | 0.17 | 19.1 |
| 2 | 662 | 878 | -11511 | 360 | -294 | -1087 | -2356 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.42 | 0.23 | 2.06 | 6.18 | 0.26 | 15.0 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 15.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1B | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1C | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1D | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1E | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1F | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1G | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1H | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1I | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1J | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1K | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1L | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1M | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1N | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1O | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 1P | 736 | 638 | -9474 | 244 | -197 | -910 | -7786 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.18 | 1.65 | 5.08 | 0.17 | 11.2 |
| 2 | 736 | 878 | -14370 | 360 | -294 | -1352 | -11880 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 1.00 | 0.28 | 2.50 | 7.71 | 0.26 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 14**  NI 14739  NF 14776  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  16.2500  7.6500  28.7125  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1B | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1C | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1D | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1E | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1F | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1G | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1H | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1I | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1J | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1K | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1L | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1M | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1N | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1O | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 1P | 0 | -70 | 9277 | 250 | 4 | 941 | -7214 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.41 | 4.98 | 0.00 | 11.2 |
| 2 | 0 | -106 | 14030 | 373 | 4 | 1406 | -10850 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.24 | 2.13 | 7.53 | 0.00 | 11.2 |

apost= 3.08 aant= --  ainf= 1.54 asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1B | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1C | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1D | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1E | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1F | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1G | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1H | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1I | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1J | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1K | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1L | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1M | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1N | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1O | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 1P | 74 | -70 | 7389 | 250 | 4 | 757 | -1082 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.20 | 0.13 | 1.12 | 3.96 | 0.00 | 19.1 |
| 2 | 74 | -106 | 11171 | 373 | 4 | 1131 | -1578 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.30 | 0.19 | 1.70 | 5.99 | 0.00 | 16.8 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1B | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1C | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1D | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1E | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1F | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1G | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1H | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1I | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1K | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1L | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1M | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1N | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1O | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1P | 147 | -70 | 5502 | 250 | 4 | 573 | 3661 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |
| 2 | 147 | -106 | 8312 | 373 | 4 | 857 | 5590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.14 | 1.26 | 4.46 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1B | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1C | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1D | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1E | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1F | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1G | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1H | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1I | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1J | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1K | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1L | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1M | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1N | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1O | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 1P | 221 | -70 | 3614 | 250 | 4 | 389 | 7015 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.55 | 0.00 | 0.00 | 19.1 |
| 2 | 221 | -106 | 5453 | 373 | 4 | 582 | 10654 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.09 | 0.75 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1O | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | -70 | 1726 | 250 | 4 | 204 | 8980 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | -106 | 2594 | 373 | 4 | 308 | 13614 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.90 | 0.05 | 0.33 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1B | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1C | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1D | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1E | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1F | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1G | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1H | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1I | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1J | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1K | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1L | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1M | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1N | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1O | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1P | 368 | -70 | -162 | 250 | 4 | 20 | 9556 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 2 | 368 | -106 | -265 | 373 | 4 | 33 | 14470 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.96 | 0.01 | 0.05 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1B | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1C | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1D | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1E | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1F | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1G | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1H | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1I | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1J | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1K | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1L | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1M | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1N | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1O | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1P | 442 | -70 | -2049 | 250 | 4 | -164 | 8742 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |
| 2 | 442 | -106 | -3124 | 373 | 4 | -242 | 13222 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.88 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1B | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1C | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1E | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1F | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1G | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1H | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1I | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1J | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1K | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1L | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1M | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1N | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1O | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1P | 515 | -70 | -3937 | 250 | 4 | -348 | 6540 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |
| 2 | 515 | -106 | -5983 | 373 | 4 | -516 | 9870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.10 | 0.82 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1B | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1C | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1D | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1E | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1F | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1G | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1H | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1I | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1J | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1K | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1L | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1M | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1N | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1O | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1P | 589 | -70 | -5825 | 250 | 4 | -533 | 2949 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |
| 2 | 589 | -106 | -8842 | 373 | 4 | -791 | 4414 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.15 | 1.34 | 4.74 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1B | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1C | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1D | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1E | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1F | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1G | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1H | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1I | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1J | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1K | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1L | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1M | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1N | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1O | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 1P | 662 | -70 | -7712 | 250 | 4 | -717 | -2032 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.13 | 1.17 | 4.14 | 0.00 | 19.1 |
| 2 | 662 | -106 | -11701 | 373 | 4 | -1065 | -3146 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.51 | 0.20 | 1.78 | 6.28 | 0.00 | 16.0 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1B | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1C | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1D | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1E | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1F | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1G | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1H | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1I | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1J | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1K | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1L | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1M | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1N | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1O | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 1P | 736 | -70 | -9600 | 250 | 4 | -901 | -8401 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.17 | 1.46 | 5.15 | 0.00 | 11.2 |
| 2 | 736 | -106 | -14560 | 373 | 4 | -1340 | -12810 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.85 | 0.25 | 2.21 | 7.81 | 0.00 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 15**  NI 14850  NF 14892  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  8.3025  6.2730  19.3880  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1B | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1C | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1D | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1F | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1G | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1H | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1I | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1J | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1K | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1L | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1M | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1N | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1O | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1P | 0 | 779 | 5833 | 94 | 7 | 344 | -4398 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.75 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 2 | 0 | 1190 | 9155 | 131 | 17 | 485 | -6932 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.79 | 0.16 | 1.40 | 4.91 | 0.02 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1B | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1C | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1D | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1E | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1F | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1G | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1H | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1I | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1J | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1K | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1L | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1M | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1N | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1O | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 1P | 68 | 779 | 4681 | 94 | 7 | 280 | -810 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 11.2 |
| 2 | 68 | 1190 | 7349 | 131 | 17 | 396 | -1300 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.26 | 0.13 | 1.13 | 3.94 | 0.02 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1B | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1C | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1D | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1E | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1F | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1G | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1H | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1I | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1J | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1K | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1L | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1M | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1N | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1O | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1P | 136 | 779 | 3529 | 94 | 7 | 216 | 1991 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 2 | 136 | 1190 | 5544 | 131 | 17 | 306 | 3099 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.55 | 0.10 | 0.86 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1B | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1C | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1D | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1E | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1F | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1G | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1H | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1I | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1J | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1K | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1L | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1M | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1N | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1O | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1P | 205 | 779 | 2377 | 94 | 7 | 152 | 4007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 2 | 205 | 1190 | 3738 | 131 | 17 | 217 | 6266 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.07 | 0.58 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1B | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1C | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1D | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1E | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1F | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1G | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1H | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1I | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1J | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1K | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1L | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1M | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1N | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1O | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1P | 273 | 779 | 1225 | 94 | 7 | 88 | 5237 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 2 | 273 | 1190 | 1932 | 131 | 17 | 127 | 8200 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1B | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1C | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1D | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1E | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1F | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1G | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1H | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1I | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1J | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1K | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1L | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1M | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1N | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1O | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 1P | 341 | 779 | 73 | 94 | 7 | 24 | 5680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.00 | 0.02 | 0.00 | 0.00 | 19.1 |
| 2 | 341 | 1190 | 126 | 131 | 17 | 38 | 8903 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1B | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1C | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1D | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1E | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1F | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1G | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1H | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1I | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1J | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1K | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1L | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1M | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1N | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1O | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 1P | 409 | 779 | -1078 | 94 | 7 | -40 | 5337 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 19.1 |
| 2 | 409 | 1190 | -1679 | 131 | 17 | -51 | 8373 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1B | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1C | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1D | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1E | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1F | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1G | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1H | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1I | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1J | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1K | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1L | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1M | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1N | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1O | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1P | 478 | 779 | -2230 | 94 | 7 | -103 | 4208 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 2 | 478 | 1190 | -3485 | 131 | 17 | -141 | 6611 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.75 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1B | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1C | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1D | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1E | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1F | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1G | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1H | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1I | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1J | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1K | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1L | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1M | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1N | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1O | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1P | 546 | 779 | -3382 | 94 | 7 | -167 | 2293 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 2 | 546 | 1190 | -5291 | 131 | 17 | -230 | 3616 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.64 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1B | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1C | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1D | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1E | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1F | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1G | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1H | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1I | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1J | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1K | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1L | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1N | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1O | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1P | 614 | 779 | -4534 | 94 | 7 | -231 | -408 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 2 | 614 | 1190 | -7096 | 131 | 17 | -320 | -611 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.12 | 1.09 | 3.81 | 0.02 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1B | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1C | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1D | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1E | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1F | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1G | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1H | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1I | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1J | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1K | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1L | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1M | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1N | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1O | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1P | 682 | 779 | -5686 | 94 | 7 | -295 | -3895 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.67 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 2 | 682 | 1190 | -8902 | 131 | 17 | -409 | -6070 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.70 | 0.16 | 1.36 | 4.78 | 0.02 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 16**  NI 15525  NF 14443  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.4925  5.6610  16.1535  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 119 | 2597 | -87 | -174 | -174 | -1179 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 176 | 3727 | -123 | -262 | -247 | -1087 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.26 | 0.16 | 1.46 | 2.81 | 0.40 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | 119 | 2084 | -87 | -174 | -142 | -704 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | 176 | 2909 | -123 | -262 | -202 | -420 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.14 | 1.28 | 2.19 | 0.40 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | 119 | 1571 | -87 | -174 | -110 | -29 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | 176 | 2092 | -123 | -262 | -156 | 504 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.11 | 1.10 | 1.58 | 0.40 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1B | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1C | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1D | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1E | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1F | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1G | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1H | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1I | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1J | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1K | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1L | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1M | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1N | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1O | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1P | 111 | 119 | 1058 | -87 | -174 | -78 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 2 | 111 | 176 | 1274 | -123 | -262 | -110 | 1125 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 148 | 119 | 545 | -87 | -174 | -46 | 753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 148 | 176 | 456 | -123 | -262 | -65 | 1445 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.07 | 0.73 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1B | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1C | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1D | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1E | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1F | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1G | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1H | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1I | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1J | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1K | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1L | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1M | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1N | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1O | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1P | 185 | 119 | 31 | -87 | -174 | -14 | 859 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 2 | 185 | 176 | -361 | -123 | -262 | -19 | 1463 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.35 | 0.06 | 0.71 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 222 | 119 | -482 | -87 | -174 | 18 | 776 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 222 | 176 | -1179 | -123 | -262 | 26 | 1178 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1B | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1C | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1D | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1E | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1F | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1G | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1I | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1J | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1K | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1L | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1M | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1N | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1O | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1P | 259 | 119 | -995 | -87 | -174 | 50 | 503 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 2 | 259 | 176 | -1997 | -123 | -262 | 72 | 591 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.11 | 1.07 | 1.51 | 0.40 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1B | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1C | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1D | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1E | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1F | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1G | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1H | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1I | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1J | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1K | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1L | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1M | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1N | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1O | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1P | 296 | 119 | -1508 | -87 | -174 | 82 | 41 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.01 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 2 | 296 | 176 | -2815 | -123 | -262 | 117 | -297 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.08 | 0.13 | 1.26 | 2.12 | 0.40 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1B | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1C | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1D | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1E | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1F | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1G | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1H | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1I | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1J | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1K | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1L | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1M | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1N | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1O | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1P | 333 | 119 | -2021 | -87 | -174 | 114 | -611 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 2 | 333 | 176 | -3632 | -123 | -262 | 163 | -1488 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.16 | 1.44 | 2.74 | 0.40 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1B | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1C | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1D | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1E | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1F | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1G | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1H | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1I | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1J | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1K | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1L | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1M | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1N | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1O | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1P | 369 | 119 | -2534 | -87 | -174 | 146 | -1452 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 2 | 369 | 176 | -4450 | -123 | -262 | 208 | -2981 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.18 | 1.62 | 3.36 | 0.40 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 17** NI 15520 NF 15525 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 355 | 2073 | -189 | -170 | -349 | -511 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.87 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 580 | 3169 | -267 | -251 | -495 | -549 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.18 | 0.14 | 1.31 | 2.39 | 0.39 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | 355 | 1594 | -189 | -170 | -282 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.76 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | 580 | 2407 | -267 | -251 | -400 | -33 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.14 | 1.82 | 0.39 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | 355 | 1115 | -189 | -170 | -215 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | 580 | 1645 | -267 | -251 | -305 | 687 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | 355 | 637 | -189 | -170 | -148 | 622 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | 580 | 884 | -267 | -251 | -210 | 1136 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | 355 | 158 | -189 | -170 | -81 | 763 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | 580 | 122 | -267 | -251 | -115 | 1315 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.66 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | 355 | -321 | -189 | -170 | -13 | 734 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | 580 | -640 | -267 | -251 | -20 | 1222 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.07 | 0.75 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | 355 | -800 | -189 | -170 | 54 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | 580 | -1402 | -267 | -251 | 75 | 860 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | 355 | -1279 | -189 | -170 | 121 | 165 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | 580 | -2164 | -267 | -251 | 170 | 226 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.11 | 1.09 | 1.63 | 0.39 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | 355 | -1757 | -189 | -170 | 188 | -375 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |
| 2 | 284 | 580 | -2925 | -267 | -251 | 265 | -678 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.13 | 1.26 | 2.21 | 0.39 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1B | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1C | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1D | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1E | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1F | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1G | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1H | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1I | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1J | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1K | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1L | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1M | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1N | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1O | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1P | 320 | 355 | -2236 | -189 | -170 | 255 | -1084 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 320 | 580 | -3687 | -267 | -251 | 360 | -1853 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.45 | 0.16 | 1.43 | 2.78 | 0.39 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1B | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1C | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1D | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1E | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1F | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1G | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1H | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1I | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1J | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1K | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1L | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1M | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1N | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1O | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 1P | 355 | 355 | -2715 | -189 | -170 | 323 | -1557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.11 | 1.01 | 2.05 | 0.26 | 9.3 |
| 2 | 355 | 580 | -4449 | -267 | -251 | 455 | -2631 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.18 | 1.60 | 3.35 | 0.39 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 18** NI 15521 NF 15520 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1B | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1C | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1D | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1E | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1F | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1G | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1H | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1I | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1J | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1K | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1L | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1M | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1N | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1O | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 1P | 0 | 71 | 4107 | 189 | -62 | 358 | -2041 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.48 | 0.13 | 1.07 | 3.10 | 0.10 | 9.3 |
| 2 | 0 | 68 | 6083 | 284 | -87 | 537 | -2864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.67 | 0.19 | 1.57 | 4.59 | 0.13 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1B | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1C | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1D | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1E | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1F | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1G | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1H | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1I | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1J | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1K | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1L | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1M | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1N | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1O | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1P | 38 | 71 | 3336 | 189 | -62 | 286 | -1239 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 0.89 | 0.00 | 0.00 | 9.3 |
| 2 | 38 | 68 | 4918 | 284 | -87 | 429 | -1681 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.16 | 1.31 | 3.71 | 0.13 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1B | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1C | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1D | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1E | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1F | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1G | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1H | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1I | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1J | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1K | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1L | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1M | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1N | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1O | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1P | 76 | 71 | 2565 | 189 | -62 | 214 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |
| 2 | 76 | 68 | 3753 | 284 | -87 | 321 | -30 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.12 | 1.05 | 2.83 | 0.13 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | 71 | 1794 | 189 | -62 | 142 | 715 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | 68 | 2588 | 284 | -87 | 213 | 1178 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.09 | 0.79 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1F | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | 71 | 1023 | 189 | -62 | 70 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | 68 | 1423 | 284 | -87 | 105 | 1942 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.45 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1B | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | 71 | 252 | 189 | -62 | -2 | 1494 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | 68 | 257 | 284 | -87 | -4 | 2262 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1L | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | 71 | -519 | 189 | -62 | -74 | 1443 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | 68 | -908 | 284 | -87 | -112 | 2138 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | 71 | -1290 | 189 | -62 | -147 | 1099 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | 68 | -2073 | 284 | -87 | -220 | 1570 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.08 | 0.67 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | 71 | -2061 | 189 | -62 | -219 | 460 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | 68 | -3238 | 284 | -87 | -328 | 558 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.11 | 0.93 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1B | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1C | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1D | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1E | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1F | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1G | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1H | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1I | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1J | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1K | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1L | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1M | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1N | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1O | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1P | 343 | 71 | -2832 | 189 | -62 | -291 | -471 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 9.3 |
| 2 | 343 | 68 | -4403 | 284 | -87 | -437 | -897 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.14 | 1.19 | 3.32 | 0.13 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1B | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1C | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1D | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1E | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1F | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1G | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1H | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1I | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1J | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1K | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1L | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1M | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1N | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1O | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1P | 381 | 71 | -3603 | 189 | -62 | -363 | -1157 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 0.95 | 0.00 | 0.00 | 9.3 |
| 2 | 381 | 68 | -5568 | 284 | -87 | -545 | -1961 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.18 | 1.45 | 4.20 | 0.13 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 19**  NI 15522  NF 15521  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.6100  5.9364  21.5464  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -9 | 4174 | -26 | 12 | -43 | -2573 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.12 | 0.96 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -106 | 6350 | -32 | 18 | -51 | -3891 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.90 | 0.18 | 1.47 | 4.79 | 0.03 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1B | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1C | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1D | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1E | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1F | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1G | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1H | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1I | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1J | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1K | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1L | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1M | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1N | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1O | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1P | 39 | -9 | 3421 | -26 | 12 | -32 | -1707 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.10 | 0.79 | 0.00 | 0.00 | 9.3 |
| 2 | 39 | -106 | 5203 | -32 | 18 | -38 | -2574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.59 | 0.15 | 1.21 | 3.92 | 0.03 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -9 | 2667 | -26 | 12 | -22 | -510 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -106 | 4055 | -32 | 18 | -25 | -755 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.12 | 0.95 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1O | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | -9 | 1914 | -26 | 12 | -12 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.06 | 0.46 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | -106 | 2908 | -32 | 18 | -13 | 613 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.09 | 0.69 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1G | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | -9 | 1160 | -26 | 12 | -1 | 994 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | -106 | 1760 | -32 | 18 | -0 | 1531 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | -9 | 407 | -26 | 12 | 9 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | -106 | 613 | -32 | 18 | 13 | 1997 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.46 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1C | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1O | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | -9 | -346 | -26 | 12 | 19 | 1314 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | -106 | -534 | -32 | 18 | 25 | 2013 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.46 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1G | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | -9 | -1100 | -26 | 12 | 29 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | -106 | -1682 | -32 | 18 | 38 | 1577 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | -9 | -1853 | -26 | 12 | 40 | 449 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | -106 | -2829 | -32 | 18 | 51 | 691 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1B | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1C | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1D | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1E | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1F | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1G | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1H | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1I | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1J | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1K | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1L | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1M | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1N | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1O | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 1P | 354 | -9 | -2607 | -26 | 12 | 50 | -427 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.61 | 0.00 | 0.00 | 9.3 |
| 2 | 354 | -106 | -3977 | -32 | 18 | 63 | -647 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 0.94 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1B | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1C | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1D | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1E | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1F | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1G | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1H | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1I | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1J | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1K | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1L | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1M | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1N | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1O | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 1P | 393 | -9 | -3360 | -26 | 12 | 60 | -1096 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |
| 2 | 393 | -106 | -5124 | -32 | 18 | 76 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.15 | 1.19 | 3.86 | 0.03 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20** NI 15523 NF 15522 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1B | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1C | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1D | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1E | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1F | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1G | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1H | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1I | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1J | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1K | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1L | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1M | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1N | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1O | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 1P | 0 | 45 | 3499 | 49 | 115 | 92 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.12 | 1.06 | 2.64 | 0.18 | 9.3 |
| 2 | 0 | -87 | 5326 | 90 | 172 | 169 | -2516 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.58 | 0.19 | 1.61 | 4.02 | 0.26 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | 45 | 2827 | 49 | 115 | 74 | -1004 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.23 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | -87 | 4304 | 90 | 172 | 136 | -1542 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.16 | 1.38 | 3.25 | 0.26 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | 45 | 2155 | 49 | 115 | 56 | -87 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.02 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -87 | 3282 | 90 | 172 | 102 | -146 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.13 | 1.15 | 2.47 | 0.26 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | 45 | 1482 | 49 | 115 | 38 | 583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | -87 | 2259 | 90 | 172 | 69 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1J | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | 45 | 810 | 49 | 115 | 20 | 1005 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | -87 | 1237 | 90 | 172 | 36 | 1518 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | 45 | 138 | 49 | 115 | 2 | 1179 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | -87 | 215 | 90 | 172 | 3 | 1786 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1D | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1P | 221 | 45 | -534 | 49 | 115 | -16 | 1106 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | -87 | -807 | 90 | 172 | -30 | 1677 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 258 | 45 | -1206 | 49 | 115 | -35 | 786 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | -87 | -1829 | 90 | 172 | -64 | 1192 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | 45 | -1879 | 49 | 115 | -53 | 218 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | -87 | -2852 | 90 | 172 | -97 | 330 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.12 | 1.05 | 2.15 | 0.26 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1B | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1C | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1D | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1E | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1F | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1G | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1H | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1I | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1J | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1K | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1L | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1M | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1N | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1O | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1P | 331 | 45 | -2551 | 49 | 115 | -71 | -597 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 2 | 331 | -87 | -3874 | 90 | 172 | -130 | -908 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.14 | 1.28 | 2.92 | 0.26 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1B | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1C | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1D | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1E | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1F | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1G | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1H | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1I | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1J | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1K | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1L | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1M | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1N | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1O | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1P | 368 | 45 | -3223 | 49 | 115 | -89 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 9.3 |
| 2 | 368 | -87 | -4896 | 90 | 172 | -163 | -1788 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.41 | 0.17 | 1.51 | 3.69 | 0.26 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 21** NI 15524 NF 15523 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1B | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1C | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1D | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1E | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1F | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1G | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1H | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1I | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1J | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1K | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1L | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1M | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1N | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1O | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |
| 1P | 0 | 120 | 3101 | -10 | 179 | -20 | -2237 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.12 | 1.12 | 2.34 | 0.27 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0 | -46 | 5009 | -18 | 261 | -35 | -3594 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.83 | 0.20 | 1.75 | 3.78 | 0.40 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1B | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1C | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1D | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1E | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1F | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1G | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1H | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1I | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1J | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1K | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1L | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1M | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1N | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1O | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 1P | 36 | 120 | 2639 | -10 | 179 | -16 | -1664 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.11 | 1.02 | 1.99 | 0.27 | 9.3 |
| 2 | 36 | -46 | 4263 | -18 | 261 | -28 | -2669 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.62 | 0.17 | 1.58 | 3.21 | 0.40 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1B | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1C | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1D | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1E | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1F | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1G | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1H | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1I | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1J | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1K | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1L | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1M | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1N | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1O | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1P | 72 | 120 | 2178 | -10 | 179 | -13 | -794 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.10 | 0.92 | 0.00 | 0.00 | 22.3 |
| 2 | 72 | -46 | 3517 | -18 | 261 | -22 | -1262 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.29 | 0.15 | 1.41 | 2.65 | 0.40 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | 120 | 1716 | -10 | 179 | -9 | -90 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.03 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | -46 | 2772 | -18 | 261 | -15 | -125 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.13 | 1.25 | 2.09 | 0.40 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1K | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | 120 | 1255 | -10 | 179 | -5 | 447 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | -46 | 2026 | -18 | 261 | -9 | 743 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.11 | 1.08 | 1.53 | 0.40 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | 120 | 793 | -10 | 179 | -2 | 817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | -46 | 1280 | -18 | 261 | -3 | 1340 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1G | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | 120 | 331 | -10 | 179 | 2 | 1021 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.05 | 0.50 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | -46 | 534 | -18 | 261 | 4 | 1668 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.07 | 0.75 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1B | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1C | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1D | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1E | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1F | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1G | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1H | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1I | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1J | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1K | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1L | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1M | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1N | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1O | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1P | 253 | 120 | -130 | -10 | 179 | 5 | 1057 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.46 | 0.00 | 0.00 | 22.3 |
| 2 | 253 | -46 | -212 | -18 | 261 | 10 | 1727 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.40 | 0.06 | 0.67 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1B | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1C | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1D | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1E | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1F | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1G | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1H | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1I | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1J | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1K | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1L | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1M | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1N | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1O | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1P | 289 | 120 | -592 | -10 | 179 | 9 | 926 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 2 | 289 | -46 | -957 | -18 | 261 | 16 | 1515 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1B | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1C | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1D | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1E | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1F | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1G | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1H | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1I | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1J | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1K | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1L | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1M | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1N | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1O | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1P | 325 | 120 | -1053 | -10 | 179 | 12 | 629 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.07 | 0.66 | 0.00 | 0.00 | 9.3 |
| 2 | 325 | -46 | -1703 | -18 | 261 | 23 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.01 | 1.28 | 0.40 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1B | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1C | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1D | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1F | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1G | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1H | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1I | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1J | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1K | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1L | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1M | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1N | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1O | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1P | 362 | 120 | -1515 | -10 | 179 | 16 | 164 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 2 | 362 | -46 | -2449 | -18 | 261 | 29 | 284 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.12 | 1.17 | 1.85 | 0.40 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22** NI 15529 NF 15524 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 3.4650 3.0294 9.4944 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1B | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1C | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1D | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1E | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1F | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1G | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1H | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1I | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1J | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1K | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1L | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1M | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1N | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1O | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 1P | 0 | 139 | 3036 | 132 | 596 | 241 | -3916 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.91 | 0.21 | 2.11 | 2.29 | 0.92 | 9.3 |
| 2 | 0 | -116 | 4697 | 203 | 872 | 371 | -5928 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.92 | 0.31 | 3.14 | 3.54 | 1.34 | 9.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1B | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1C | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1D | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1E | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1F | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1G | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1H | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1I | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1J | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1K | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1L | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1M | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1N | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1O | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 1P | 40 | 139 | 2708 | 132 | 596 | 189 | -3235 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.20 | 2.03 | 2.04 | 0.92 | 9.3 |
| 2 | 40 | -116 | 4185 | 203 | 872 | 291 | -4876 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.76 | 0.30 | 3.03 | 3.16 | 1.34 | 9.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1B | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1C | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1D | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1E | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1F | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1G | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1H | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1I | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1J | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1K | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1L | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1M | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1N | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1O | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 1P | 79 | 139 | 2381 | 132 | 596 | 137 | -2228 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.52 | 0.19 | 1.96 | 1.80 | 0.92 | 22.3 |
| 2 | 79 | -116 | 3673 | 203 | 872 | 211 | -3321 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.77 | 0.28 | 2.91 | 2.77 | 1.34 | 18.4 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 18.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1B | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1C | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1D | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1E | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1G | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1H | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1I | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1J | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1K | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1L | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1M | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1N | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1O | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 1P | 119 | 139 | 2053 | 132 | 596 | 85 | -1351 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.18 | 1.89 | 1.55 | 0.92 | 22.3 |
| 2 | 119 | -116 | 3160 | 203 | 872 | 131 | -1970 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.45 | 0.27 | 2.80 | 2.38 | 1.34 | 19.8 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 19.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1B | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1C | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1D | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1E | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1F | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1G | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1H | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1I | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1J | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1K | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1L | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1M | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1N | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1O | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 1P | 158 | 139 | 1725 | 132 | 596 | 33 | -604 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.17 | 1.81 | 1.30 | 0.92 | 22.3 |
| 2 | 158 | -116 | 2648 | 203 | 872 | 51 | -820 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.19 | 0.25 | 2.68 | 2.00 | 1.34 | 21.5 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 21.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1B | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1C | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1D | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1E | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1F | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1G | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1H | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1I | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1J | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1K | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1L | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1M | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1N | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1O | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 1P | 198 | 139 | 1397 | 132 | 596 | -19 | 14 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.01 | 0.16 | 1.74 | 1.05 | 0.92 | 22.3 |
| 2 | 198 | -116 | 2136 | 203 | 872 | -29 | 126 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.02 | 0.24 | 2.57 | 1.61 | 1.34 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1B | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1C | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1D | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1E | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1F | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1G | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1H | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1I | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1J | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1K | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1L | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1M | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1N | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1O | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 1P | 237 | 139 | 1070 | 132 | 596 | -71 | 502 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.67 | 0.81 | 0.92 | 22.3 |
| 2 | 237 | -116 | 1624 | 203 | 872 | -110 | 870 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.20 | 0.22 | 2.45 | 1.22 | 1.34 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1B | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1C | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1D | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1E | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1F | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1G | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1H | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1I | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1J | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1K | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1L | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1M | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1N | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1O | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 1P | 277 | 139 | 742 | 132 | 596 | -123 | 860 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.59 | 0.56 | 0.92 | 22.3 |
| 2 | 277 | -116 | 1111 | 203 | 872 | -190 | 1411 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.32 | 0.21 | 2.34 | 0.84 | 1.34 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1B | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1C | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1D | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1E | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1F | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1G | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1H | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1I | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1J | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1K | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1L | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1M | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1N | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1O | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 1P | 317 | 139 | 414 | 132 | 596 | -175 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.52 | 0.31 | 0.92 | 22.3 |
| 2 | 317 | -116 | 599 | 203 | 872 | -270 | 1749 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.40 | 0.19 | 2.22 | 0.45 | 1.34 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1B | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1C | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1D | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1E | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1F | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1G | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1H | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1I | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1J | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1K | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1L | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1M | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1N | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1O | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 1P | 356 | 139 | 86 | 132 | 596 | -227 | 1188 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.12 | 1.46 | 0.14 | 0.92 | 9.3 |
| 2 | 356 | -116 | 87 | 203 | 872 | -350 | 1885 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.43 | 0.18 | 2.13 | 0.21 | 1.34 | 9.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1B | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1C | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1D | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1E | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1F | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1G | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1H | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1I | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1J | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1K | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1L | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1M | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1N | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1O | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 1P | 396 | 139 | -241 | 132 | 596 | -280 | 1157 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.13 | 1.48 | 0.18 | 0.92 | 9.3 |
| 2 | 396 | -116 | -425 | 203 | 872 | -430 | 1818 | 4.62 | 4.62 | 4.62 | 4.62 | 2 | 0.42 | 0.19 | 2.18 | 0.32 | 1.34 | 9.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 23** NI 15148 NF 15529 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 3.4650 3.0294 9.4944 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 430 | -458 | 298 | -204 | 616 | 2742 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.05 | 0.59 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 252 | -32 | 410 | -296 | 846 | 3034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.71 | 0.07 | 0.79 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1B | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1C | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1D | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1E | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1F | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1G | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1H | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1I | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1J | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1K | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1L | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1M | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1N | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1O | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 1P | 41 | 430 | -797 | 298 | -204 | 494 | 2486 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.59 | 0.06 | 0.67 | 0.00 | 0.00 | 9.3 |
| 2 | 41 | 252 | -561 | 410 | -296 | 679 | 2913 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.69 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1B | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1C | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1D | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1E | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1F | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1G | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1H | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1I | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1J | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1K | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1L | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1M | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1N | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1O | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1P | 82 | 430 | -1135 | 298 | -204 | 373 | 2091 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 2 | 82 | 252 | -1090 | 410 | -296 | 511 | 2576 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 123 | 430 | -1473 | 298 | -204 | 251 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 123 | 252 | -1619 | 410 | -296 | 344 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.11 | 1.07 | 1.22 | 0.46 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1B | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1C | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1D | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1E | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1F | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1G | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1H | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1I | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1J | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1K | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1L | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1M | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1N | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1O | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1P | 163 | 430 | -1812 | 298 | -204 | 129 | 887 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 2 | 163 | 252 | -2148 | 410 | -296 | 177 | 1252 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.12 | 1.19 | 1.62 | 0.46 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1B | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1C | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1D | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1E | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1F | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1G | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1H | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1I | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1J | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1K | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1L | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1M | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1N | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1P | 204 | 430 | -2150 | 298 | -204 | 8 | 77 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 2 | 204 | 252 | -2677 | 410 | -296 | 9 | 266 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.14 | 1.31 | 2.02 | 0.46 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1B | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1C | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1D | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1E | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1F | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1G | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1H | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1I | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1J | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1K | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1L | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1M | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1N | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1O | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 1P | 245 | 430 | -2489 | 298 | -204 | -114 | -871 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.11 | 1.05 | 1.88 | 0.31 | 22.3 |
| 2 | 245 | 252 | -3207 | 410 | -296 | -158 | -936 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.15 | 1.43 | 2.42 | 0.46 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1B | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1C | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1D | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1E | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1F | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1G | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1H | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1I | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1J | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1K | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1L | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1M | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1N | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1O | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 1P | 286 | 430 | -2828 | 298 | -204 | -235 | -1957 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.12 | 2.13 | 0.31 | 22.3 |
| 2 | 286 | 252 | -3736 | 410 | -296 | -325 | -2354 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.56 | 0.17 | 1.55 | 2.82 | 0.46 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1B | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1C | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1D | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1E | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1F | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1G | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1H | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1I | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1J | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1K | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1L | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1M | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1N | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1O | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 1P | 327 | 430 | -3166 | 298 | -204 | -357 | -3181 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.13 | 1.20 | 2.39 | 0.31 | 22.3 |
| 2 | 327 | 252 | -4265 | 410 | -296 | -493 | -3989 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.94 | 0.18 | 1.66 | 3.22 | 0.46 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1B | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1C | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1D | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1E | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1F | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1G | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1H | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1I | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1J | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1K | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1L | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1M | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1N | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1O | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 1P | 368 | 430 | -3504 | 298 | -204 | -479 | -4544 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.14 | 1.27 | 2.64 | 0.31 | 9.3 |
| 2 | 368 | 252 | -4794 | 410 | -296 | -660 | -5840 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.92 | 0.20 | 1.78 | 3.61 | 0.46 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1B | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1C | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1D | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1E | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1F | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1G | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1H | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1J | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1K | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1L | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1M | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1N | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1O | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 1P | 409 | 430 | -3843 | 298 | -204 | -600 | -5469 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.87 | 0.15 | 1.35 | 2.90 | 0.31 | 9.3 |
| 2 | 409 | 252 | -5323 | 410 | -296 | -828 | -7109 | 3.08 | 4.62 | 3.08 | 6.16 | 2 | 0.85 | 0.21 | 1.90 | 4.01 | 0.46 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 3.08 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 24**  NI 15517  NF 14444  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.4925  5.6610  16.1535  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1B | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1C | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1D | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1E | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1F | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1G | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1H | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1I | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1J | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1K | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1L | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1M | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1N | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1O | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 1P | 0 | 899 | 1451 | -156 | 304 | -308 | 160 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.10 | 1.05 | 1.09 | 0.47 | 9.3 |
| 2 | 0 | 1284 | 2281 | -219 | 525 | -431 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.17 | 1.77 | 1.72 | 0.81 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | 899 | 938 | -156 | 304 | -250 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.94 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | 1284 | 1463 | -219 | 525 | -350 | 1004 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.15 | 1.59 | 1.10 | 0.81 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | 899 | 425 | -156 | 304 | -193 | 853 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | 1284 | 646 | -219 | 525 | -269 | 1394 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.12 | 1.40 | 0.49 | 0.81 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 111 | 899 | -88 | -156 | 304 | -135 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 111 | 1284 | -172 | -219 | 525 | -188 | 1481 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.40 | 0.11 | 1.30 | 0.23 | 0.81 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1B | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1C | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1D | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1E | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1F | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1G | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1H | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1I | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1J | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1K | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1L | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1M | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1N | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1O | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1P | 148 | 899 | -601 | -156 | 304 | -78 | 788 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 2 | 148 | 1284 | -990 | -219 | 525 | -107 | 1267 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.35 | 0.13 | 1.48 | 0.75 | 0.81 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1B | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1C | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1D | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1E | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1F | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1G | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1H | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1I | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1J | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1K | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1L | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1M | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1N | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1O | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 1P | 185 | 899 | -1115 | -156 | 304 | -20 | 471 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |
| 2 | 185 | 1284 | -1808 | -219 | 525 | -26 | 750 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.16 | 1.66 | 1.36 | 0.81 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1B | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1C | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1D | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1E | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1F | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1G | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1H | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1I | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1J | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1K | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1L | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1M | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1N | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1O | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 1P | 222 | 899 | -1628 | -156 | 304 | 37 | -35 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.05 | 0.11 | 1.09 | 1.23 | 0.47 | 22.3 |
| 2 | 222 | 1284 | -2625 | -219 | 525 | 55 | -69 | 4.62 | 3.08 | 3.08 | 4.62 | 1 | 0.07 | 0.18 | 1.84 | 1.98 | 0.81 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1B | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1C | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1D | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1E | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1F | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1G | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1H | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1I | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1J | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1K | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1L | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1M | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1N | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1O | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 1P | 259 | 899 | -2141 | -156 | 304 | 95 | -731 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.21 | 1.61 | 0.47 | 22.3 |
| 2 | 259 | 1284 | -3443 | -219 | 525 | 136 | -1190 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.20 | 2.03 | 2.60 | 0.81 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1B | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1C | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1E | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1F | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1G | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1H | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1I | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1J | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1K | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1L | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1M | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1N | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1O | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 1P | 296 | 899 | -2654 | -156 | 304 | 153 | -1617 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.14 | 1.32 | 2.00 | 0.47 | 22.3 |
| 2 | 296 | 1284 | -4261 | -219 | 525 | 217 | -2613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.23 | 2.21 | 3.21 | 0.81 | 20.8 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 20.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1B | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1C | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1D | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1E | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1F | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1G | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1H | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1I | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1J | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1K | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1L | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1M | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1N | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1O | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 1P | 333 | 899 | -3167 | -156 | 304 | 210 | -2692 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.15 | 1.44 | 2.39 | 0.47 | 9.3 |
| 2 | 333 | 1284 | -5078 | -219 | 525 | 298 | -4338 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.71 | 0.25 | 2.39 | 3.83 | 0.81 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1B | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1C | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1D | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1E | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1F | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1G | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1H | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1I | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1J | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1K | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1L | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1M | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1N | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1O | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 1P | 369 | 899 | -3680 | -156 | 304 | 268 | -3957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.95 | 0.17 | 1.55 | 2.77 | 0.47 | 9.3 |
| 2 | 369 | 1284 | -5896 | -219 | 525 | 379 | -6365 | 4.62 | 3.08 | 3.08 | 6.16 | 2 | 0.78 | 0.27 | 2.58 | 4.45 | 0.81 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 25** NI 15514 NF 15517 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | kg | | | kg*m | | | cmq | | | | | | | | cmq/m | | cm |
| 1A | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 1163 | 2207 | -185 | 191 | -326 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 1645 | 3569 | -253 | 290 | -448 | -647 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.16 | 1.49 | 2.69 | 0.45 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | 1163 | 1728 | -185 | 191 | -261 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | 1645 | 2807 | -253 | 290 | -358 | 485 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.14 | 1.32 | 2.12 | 0.45 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | 1163 | 1249 | -185 | 191 | -195 | 841 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | 1645 | 2045 | -253 | 290 | -268 | 1348 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.12 | 1.15 | 1.54 | 0.45 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | 1163 | 770 | -185 | 191 | -129 | 1200 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | 1645 | 1284 | -253 | 290 | -178 | 1939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.10 | 0.98 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | 1163 | 291 | -185 | 191 | -64 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | 1645 | 522 | -253 | 290 | -88 | 2260 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.59 | 0.07 | 0.81 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | 1163 | -187 | -185 | 191 | 2 | 1407 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | 1645 | -240 | -253 | 290 | 2 | 2310 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.60 | 0.07 | 0.75 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | 1163 | -666 | -185 | 191 | 68 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.34 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | 1645 | -1002 | -253 | 290 | 92 | 2090 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.55 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | 1163 | -1145 | -185 | 191 | 134 | 933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | 1645 | -1764 | -253 | 290 | 182 | 1599 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.11 | 1.09 | 1.33 | 0.45 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | 1163 | -1624 | -185 | 191 | 199 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 284 | 1645 | -2525 | -253 | 290 | 272 | 837 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.13 | 1.26 | 1.90 | 0.45 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1B | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1C | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1D | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1E | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1F | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1G | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1H | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1I | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1J | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1K | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1L | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1M | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1N | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1O | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1P | 320 | 1163 | -2103 | -185 | 191 | 265 | -221 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 2 | 320 | 1645 | -3287 | -253 | 290 | 362 | -196 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.15 | 1.43 | 2.48 | 0.45 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1B | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1C | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1D | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1E | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1F | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1G | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1H | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1I | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1J | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1K | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1L | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1N | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1O | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 1P | 355 | 1163 | -2582 | -185 | 191 | 331 | -1053 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.29 | 0.11 | 1.03 | 1.95 | 0.29 | 9.3 |
| 2 | 355 | 1645 | -4049 | -253 | 290 | 452 | -1499 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.17 | 1.60 | 3.05 | 0.45 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 26** NI 15511 NF 15514 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1B | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1C | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1D | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1E | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1F | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1G | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1H | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1I | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1J | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1K | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1L | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1M | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1N | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1O | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 1P | 0 | 1055 | 4463 | 223 | 156 | 425 | -2997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.16 | 1.37 | 3.37 | 0.24 | 9.3 |
| 2 | 0 | 1490 | 6756 | 341 | 241 | 650 | -4585 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.76 | 0.24 | 2.09 | 5.09 | 0.37 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1B | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1C | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1D | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1E | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1F | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1G | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1H | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1I | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1J | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1K | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1L | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1M | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1N | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1O | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 1P | 38 | 1055 | 3692 | 223 | 156 | 340 | -1444 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.38 | 0.14 | 1.20 | 2.78 | 0.24 | 9.3 |
| 2 | 38 | 1490 | 5591 | 341 | 241 | 520 | -2233 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.58 | 0.21 | 1.83 | 4.22 | 0.37 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1B | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1C | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1D | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1E | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1F | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1G | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1H | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1I | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1J | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1K | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1L | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1M | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1N | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1O | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 1P | 76 | 1055 | 2921 | 223 | 156 | 255 | -184 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.11 | 1.03 | 2.20 | 0.24 | 22.3 |
| 2 | 76 | 1490 | 4426 | 341 | 241 | 390 | -325 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.17 | 1.57 | 3.34 | 0.37 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | 1055 | 2150 | 223 | 156 | 170 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.85 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | 1490 | 3261 | 341 | 241 | 260 | 1139 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.14 | 1.31 | 2.46 | 0.37 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | 1055 | 1379 | 223 | 156 | 85 | 1454 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | 1490 | 2096 | 341 | 241 | 130 | 2159 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.56 | 0.11 | 1.05 | 1.58 | 0.37 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | 1055 | 608 | 223 | 156 | 0 | 1833 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | 1490 | 931 | 341 | 241 | 0 | 2736 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.70 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1L | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | 1055 | -162 | 223 | 156 | -85 | 1918 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.04 | 0.42 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | 1490 | -234 | 341 | 241 | -130 | 2869 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.73 | 0.06 | 0.65 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1L | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | 1055 | -933 | 223 | 156 | -170 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.44 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | 1490 | -1399 | 341 | 241 | -259 | 2558 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.65 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | 1055 | -1704 | 223 | 156 | -255 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | 1490 | -2564 | 341 | 241 | -389 | 1803 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.48 | 0.12 | 1.15 | 1.93 | 0.37 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1B | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1C | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1D | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1E | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1F | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1G | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1H | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1I | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1J | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1K | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1L | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1M | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1N | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1O | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1P | 343 | 1055 | -2475 | 223 | 156 | -340 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 2 | 343 | 1490 | -3729 | 341 | 241 | -519 | 604 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.15 | 1.41 | 2.81 | 0.37 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1B | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1C | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1D | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1E | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1F | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1G | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1H | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1I | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1J | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1K | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1L | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1M | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1N | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1O | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 1P | 381 | 1055 | -3246 | 223 | 156 | -425 | -679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.12 | 1.10 | 2.45 | 0.24 | 9.3 |
| 2 | 381 | 1490 | -4894 | 341 | 241 | -649 | -1038 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.30 | 0.19 | 1.67 | 3.69 | 0.37 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 27**  NI 15508  NF 15511  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.6100  5.9364  21.5464  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1B | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1C | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1D | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1E | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1F | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1G | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1H | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1I | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1J | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1K | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1L | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1M | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1N | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1O | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 1P | 0 | 878 | 3444 | 6 | -101 | 18 | -1601 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.12 | 1.01 | 2.60 | 0.16 | 9.3 |
| 2 | 0 | 1232 | 5226 | 19 | -154 | 45 | -2390 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.60 | 0.18 | 1.54 | 3.94 | 0.24 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1B | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1C | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1D | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1E | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1F | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1G | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1H | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1J | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1K | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1L | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1M | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1N | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1O | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1P | 39 | 878 | 2691 | 6 | -101 | 15 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.10 | 0.84 | 0.00 | 0.00 | 9.3 |
| 2 | 39 | 1232 | 4079 | 19 | -154 | 37 | -562 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.15 | 1.28 | 3.08 | 0.24 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | 878 | 1937 | 6 | -101 | 13 | 514 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | 1232 | 2931 | 19 | -154 | 30 | 816 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.11 | 1.02 | 2.21 | 0.24 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | 878 | 1184 | 6 | -101 | 10 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | 1232 | 1784 | 19 | -154 | 22 | 1743 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.45 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1G | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | 878 | 430 | 6 | -101 | 8 | 1445 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | 1232 | 636 | 19 | -154 | 15 | 2218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.56 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | 878 | -323 | 6 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | 1232 | -511 | 19 | -154 | 7 | 2243 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.57 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | 878 | -1076 | 6 | -101 | 3 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | 1232 | -1658 | 19 | -154 | -0 | 1817 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1G | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | 878 | -1830 | 6 | -101 | 1 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | 1232 | -2806 | 19 | -154 | -8 | 940 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.11 | 1.00 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | 878 | -2583 | 6 | -101 | -2 | -247 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | 1232 | -3953 | 19 | -154 | -15 | -388 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.14 | 1.25 | 2.98 | 0.24 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1B | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1C | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1D | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1E | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1F | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1G | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1H | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1I | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1J | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1K | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1L | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1M | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1N | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1O | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1P | 354 | 878 | -3337 | 6 | -101 | -4 | -1411 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |
| 2 | 354 | 1232 | -5101 | 19 | -154 | -23 | -2167 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.18 | 1.51 | 3.85 | 0.24 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1B | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1C | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1D | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1E | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1F | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1G | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1H | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1I | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1J | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1K | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1L | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1M | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1N | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1O | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |
| 1P | 393 | 878 | -4090 | 6 | -101 | -7 | -2870 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.70 | 0.14 | 1.16 | 3.08 | 0.16 | 9.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 393 | 1232 | -6248 | 19 | -154 | -30 | -4397 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.72 | 0.21 | 1.77 | 4.71 | 0.24 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 28** NI 15528 NF 15508 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 789 | 3535 | 94 | -71 | 182 | -1959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.11 | 0.96 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 1115 | 5412 | 160 | -90 | 306 | -3080 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.76 | 0.17 | 1.42 | 4.08 | 0.14 | 9.3 |
| 1A | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | 789 | 2863 | 94 | -71 | 147 | -781 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.81 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | 1115 | 4390 | 160 | -90 | 247 | -1276 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.14 | 1.20 | 3.31 | 0.14 | 9.3 |
| 1A | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | 789 | 2191 | 94 | -71 | 112 | 149 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.66 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | 1115 | 3368 | 160 | -90 | 188 | 152 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.11 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1A | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | 789 | 1519 | 94 | -71 | 78 | 832 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | 1115 | 2345 | 160 | -90 | 129 | 1204 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | 789 | 847 | 94 | -71 | 43 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | 1115 | 1323 | 160 | -90 | 70 | 1880 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | 789 | 175 | 94 | -71 | 8 | 1456 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | 1115 | 301 | 160 | -90 | 11 | 2179 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.55 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1D | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1P | 221 | 789 | -497 | 94 | -71 | -27 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | 1115 | -721 | 160 | -90 | -47 | 2101 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.53 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1P | 258 | 789 | -1169 | 94 | -71 | -61 | 1090 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | 1115 | -1743 | 160 | -90 | -106 | 1648 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.43 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | 789 | -1841 | 94 | -71 | -96 | 536 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | 1115 | -2766 | 160 | -90 | -165 | 818 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1B | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1C | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1D | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1E | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1F | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1G | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1H | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1I | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1J | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1K | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1L | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1M | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1N | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1O | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 1P | 331 | 789 | -2513 | 94 | -71 | -131 | -266 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.73 | 0.00 | 0.00 | 9.3 |
| 2 | 331 | 1115 | -3788 | 160 | -90 | -224 | -388 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.14 | 0.13 | 1.06 | 2.86 | 0.14 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1B | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1C | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1D | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1E | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1F | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1G | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1H | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1I | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1J | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1K | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1L | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1M | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1N | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1O | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1P | 368 | 789 | -3185 | 94 | -71 | -166 | -1315 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 2 | 368 | 1115 | -4810 | 160 | -90 | -283 | -1971 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.50 | 0.15 | 1.29 | 3.63 | 0.14 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 29**  NI 15507  NF 15528  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1B | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1C | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1D | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1E | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1F | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1G | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1H | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1I | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1J | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1K | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1L | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1M | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1N | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1O | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 1P | 0 | 527 | 2155 | 75 | -320 | 155 | -827 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.13 | 1.25 | 1.62 | 0.49 | 9.3 |
| 2 | 0 | 755 | 3451 | 108 | -478 | 224 | -1243 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.19 | 1.92 | 2.60 | 0.73 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1B | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1C | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1D | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1E | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1F | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1G | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1H | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1I | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1J | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1K | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1L | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1N | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1O | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 1P | 36 | 527 | 1693 | 75 | -320 | 128 | -131 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.06 | 0.11 | 1.15 | 1.28 | 0.49 | 9.3 |
| 2 | 36 | 755 | 2705 | 108 | -478 | 185 | -130 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.17 | 1.75 | 2.04 | 0.73 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1B | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1C | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1D | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1E | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1F | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1G | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1H | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1I | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1J | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1K | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1L | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1M | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1N | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1O | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 1P | 72 | 527 | 1232 | 75 | -320 | 101 | 398 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.04 | 0.93 | 0.49 | 22.3 |
| 2 | 72 | 755 | 1959 | 108 | -478 | 146 | 713 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.15 | 1.58 | 1.48 | 0.73 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | 527 | 770 | 75 | -320 | 74 | 760 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | 755 | 1213 | 108 | -478 | 107 | 1287 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.13 | 1.42 | 0.91 | 0.73 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1K | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | 527 | 309 | 75 | -320 | 46 | 955 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | 755 | 467 | 108 | -478 | 68 | 1590 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.40 | 0.11 | 1.25 | 0.35 | 0.73 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1K | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | 527 | -153 | 75 | -320 | 19 | 983 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | 755 | -278 | 108 | -478 | 29 | 1625 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.10 | 1.21 | 0.21 | 0.73 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | 527 | -615 | 75 | -320 | -8 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | 755 | -1024 | 108 | -478 | -11 | 1389 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.35 | 0.13 | 1.37 | 0.77 | 0.73 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1B | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1C | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1D | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1E | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1F | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1G | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1H | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1I | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1J | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1K | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1L | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1M | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1N | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1O | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 1P | 253 | 527 | -1076 | 75 | -320 | -35 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 1.01 | 0.81 | 0.49 | 22.3 |
| 2 | 253 | 755 | -1770 | 108 | -478 | -50 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.15 | 1.54 | 1.33 | 0.73 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1B | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1C | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1D | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1E | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1F | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1G | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1H | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1I | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1J | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1K | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1L | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1M | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1N | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1O | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 1P | 289 | 527 | -1538 | 75 | -320 | -62 | 66 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.11 | 1.11 | 1.16 | 0.49 | 22.3 |
| 2 | 289 | 755 | -2516 | 108 | -478 | -89 | 109 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.17 | 1.71 | 1.90 | 0.73 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1B | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1C | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1D | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1E | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1F | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1G | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1H | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1I | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1J | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1K | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1L | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1M | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1N | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1O | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 1P | 325 | 527 | -1999 | 75 | -320 | -89 | -574 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.21 | 1.51 | 0.49 | 9.3 |
| 2 | 325 | 755 | -3262 | 108 | -478 | -128 | -936 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.19 | 1.87 | 2.46 | 0.73 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1B | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1C | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1D | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1E | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1F | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1G | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1H | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1I | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1J | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1K | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1L | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1M | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1N | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1O | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 1P | 362 | 527 | -2461 | 75 | -320 | -116 | -1380 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.13 | 1.32 | 1.86 | 0.49 | 9.3 |
| 2 | 362 | 755 | -4008 | 108 | -478 | -167 | -2250 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.21 | 2.04 | 3.02 | 0.73 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 30** NI 15518 NF 14445 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.4925 5.6610 16.1535 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1B | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1C | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1D | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1E | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1F | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1G | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1H | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1I | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1J | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1K | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1L | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1M | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1N | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1O | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 1P | 0 | 450 | 1459 | -108 | -417 | -223 | 298 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.13 | 1.32 | 1.10 | 0.64 | 9.3 |
| 2 | 0 | 641 | 2133 | -149 | -595 | -309 | 846 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.18 | 1.90 | 1.61 | 0.92 | 9.3 |
| apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1B | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1C | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1D | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1E | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1F | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1G | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1H | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1I | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1J | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1K | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1L | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1M | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1N | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1O | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 1P | 37 | 450 | 946 | -108 | -417 | -183 | 742 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.11 | 1.21 | 0.71 | 0.64 | 9.3 |
| 2 | 37 | 641 | 1315 | -149 | -595 | -254 | 1483 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.37 | 0.16 | 1.72 | 0.99 | 0.92 | 9.3 |
| apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1B | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1C | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1D | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1E | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1F | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1G | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1H | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1I | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1J | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1K | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1L | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1M | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1N | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1O | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 1P | 74 | 450 | 433 | -108 | -417 | -143 | 997 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.10 | 1.10 | 0.33 | 0.64 | 22.3 |
| 2 | 74 | 641 | 498 | -149 | -595 | -199 | 1817 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.45 | 0.13 | 1.54 | 0.38 | 0.92 | 22.3 |
| apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1B | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1C | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1D | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1E | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1F | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1G | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1H | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1I | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1J | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1K | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1L | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1M | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1N | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1O | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 1P | 111 | 450 | -81 | -108 | -417 | -103 | 1061 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.09 | 1.02 | 0.06 | 0.64 | 22.3 |
| 2 | 111 | 641 | -320 | -149 | -595 | -143 | 1850 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.13 | 1.50 | 0.24 | 0.92 | 22.3 |
| apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1C | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1D | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1E | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1F | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1G | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1H | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1I | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1J | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1K | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1L | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1M | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1N | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1O | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 1P | 148 | 450 | -594 | -108 | -417 | -63 | 937 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.10 | 1.13 | 0.45 | 0.64 | 22.3 |
| 2 | 148 | 641 | -1138 | -149 | -595 | -88 | 1581 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.39 | 0.15 | 1.68 | 0.86 | 0.92 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1B | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1C | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1D | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1E | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1F | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1G | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1H | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1I | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1J | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1K | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1L | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1M | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1N | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1O | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 1P | 185 | 450 | -1107 | -108 | -417 | -23 | 623 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.12 | 1.25 | 0.83 | 0.64 | 22.3 |
| 2 | 185 | 641 | -1955 | -149 | -595 | -33 | 1010 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.18 | 1.86 | 1.47 | 0.92 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1B | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1C | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1D | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1E | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1F | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1G | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1H | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1I | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1J | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1K | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1L | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1M | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1N | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1O | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 1P | 222 | 450 | -1620 | -108 | -417 | 17 | 119 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.13 | 1.36 | 1.22 | 0.64 | 22.3 |
| 2 | 222 | 641 | -2773 | -149 | -595 | 22 | 136 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.20 | 2.05 | 2.09 | 0.92 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1B | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1C | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1D | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1E | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1F | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1G | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1H | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1I | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1J | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1K | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1L | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1M | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1N | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1O | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 1P | 259 | 450 | -2133 | -108 | -417 | 56 | -574 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.14 | 1.48 | 1.61 | 0.64 | 22.3 |
| 2 | 259 | 641 | -3591 | -149 | -595 | 77 | -1039 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.22 | 2.23 | 2.71 | 0.92 | 22.2 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1B | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1C | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1D | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1E | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1F | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1G | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1H | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1I | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1J | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1K | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1L | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1M | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1N | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 1O | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 296 | 450 | -2647 | -108 | -417 | 96 | -1457 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.16 | 1.59 | 2.00 | 0.64 | 22.3 |
| 2 | 296 | 641 | -4409 | -149 | -595 | 133 | -2517 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.61 | 0.25 | 2.41 | 3.32 | 0.92 | 19.5 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 19.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1B | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1C | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1D | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1E | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1F | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1G | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1H | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1I | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1J | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1K | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1L | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1M | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1N | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1O | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 1P | 333 | 450 | -3160 | -108 | -417 | 136 | -2530 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.61 | 0.17 | 1.70 | 2.38 | 0.64 | 9.3 |
| 2 | 333 | 641 | -5226 | -149 | -595 | 188 | -4296 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.69 | 0.27 | 2.59 | 3.94 | 0.92 | 9.3 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1B | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1C | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1D | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1E | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1F | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1G | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1H | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1I | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1J | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1K | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1L | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1M | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1N | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1O | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 1P | 369 | 450 | -3673 | -108 | -417 | 176 | -3792 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.90 | 0.19 | 1.82 | 2.77 | 0.64 | 9.3 |
| 2 | 369 | 641 | -6044 | -149 | -595 | 243 | -6378 | 4.62 | 4.62 | 3.08 | 6.16 | 2 | 0.77 | 0.29 | 2.78 | 4.56 | 0.92 | 9.3 |

apost= 1.54 aant= 1.54 ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 31** NI 15515 NF 15518 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1B | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1C | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1D | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1E | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1F | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1G | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1H | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1I | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1J | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1K | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1L | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1M | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1N | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1O | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 1P | 0 | 298 | 2152 | -200 | -260 | -367 | -492 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.62 | 0.40 | 9.3 |
| 2 | 0 | 425 | 3489 | -278 | -369 | -511 | -798 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.17 | 1.66 | 2.63 | 0.57 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | 298 | 1673 | -200 | -260 | -296 | 187 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 1.00 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 36 | 425 | 2727 | -278 | -369 | -412 | 306 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.49 | 2.06 | 0.57 | 9.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | 298 | 1194 | -200 | -260 | -225 | 697 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | 425 | 1965 | -278 | -369 | -313 | 1140 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.13 | 1.32 | 1.48 | 0.57 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | 298 | 716 | -200 | -260 | -154 | 1036 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.78 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | 425 | 1203 | -278 | -369 | -214 | 1703 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.11 | 1.15 | 0.91 | 0.57 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | 298 | 237 | -200 | -260 | -83 | 1206 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | 425 | 441 | -278 | -369 | -116 | 1995 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.48 | 0.09 | 0.98 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | 298 | -242 | -200 | -260 | -11 | 1205 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | 425 | -320 | -278 | -369 | -17 | 2016 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.49 | 0.08 | 0.96 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | 298 | -721 | -200 | -260 | 60 | 1034 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | 425 | -1082 | -278 | -369 | 82 | 1767 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.11 | 1.13 | 0.82 | 0.57 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | 298 | -1200 | -200 | -260 | 131 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | 425 | -1844 | -278 | -369 | 181 | 1247 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.13 | 1.30 | 1.39 | 0.57 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | 298 | -1678 | -200 | -260 | 202 | 182 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |
| 2 | 284 | 425 | -2606 | -278 | -369 | 280 | 456 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.15 | 1.47 | 1.97 | 0.57 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1B | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1C | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1D | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1E | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1F | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1G | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1H | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1I | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1J | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1K | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1L | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1M | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1N | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1O | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 1P | 320 | 298 | -2157 | -200 | -260 | 273 | -500 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 1.11 | 1.63 | 0.40 | 9.3 |
| 2 | 320 | 425 | -3368 | -278 | -369 | 378 | -605 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.16 | 0.17 | 1.64 | 2.54 | 0.57 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1B | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1C | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1D | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1E | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1F | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1G | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1H | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1I | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1J | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1K | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1L | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1M | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1N | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1O | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 1P | 355 | 298 | -2636 | -200 | -260 | 344 | -1351 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.13 | 1.21 | 1.99 | 0.40 | 9.3 |
| 2 | 355 | 425 | -4130 | -278 | -369 | 477 | -1937 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.47 | 0.19 | 1.81 | 3.11 | 0.57 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 32** NI 15512 NF 15515 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 233 | 4107 | 179 | -22 | 336 | -2326 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 0.97 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 328 | 6179 | 276 | -10 | 518 | -3480 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.82 | 0.18 | 1.40 | 4.66 | 0.01 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1B | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1C | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1D | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1E | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1F | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1G | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1H | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1I | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1J | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1K | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1L | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1M | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1N | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1O | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 1P | 38 | 233 | 3336 | 179 | -22 | 268 | -908 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.80 | 0.00 | 0.00 | 9.3 |
| 2 | 38 | 328 | 5014 | 276 | -10 | 413 | -1348 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.33 | 0.14 | 1.14 | 3.78 | 0.01 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1B | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1C | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1D | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1E | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1F | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1G | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1H | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1I | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1J | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1K | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1L | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1M | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1N | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1O | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1P | 76 | 233 | 2565 | 179 | -22 | 200 | 216 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |
| 2 | 76 | 328 | 3849 | 276 | -10 | 308 | 340 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.11 | 0.88 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1N | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | 233 | 1794 | 179 | -22 | 132 | 1046 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.45 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | 328 | 2684 | 276 | -10 | 203 | 1584 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | 233 | 1023 | 179 | -22 | 63 | 1583 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | 328 | 1519 | 276 | -10 | 98 | 2384 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.57 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1B | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | 233 | 252 | 179 | -22 | -5 | 1826 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | 328 | 354 | 276 | -10 | -7 | 2741 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.65 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1L | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | 233 | -518 | 179 | -22 | -73 | 1775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.42 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | 328 | -812 | 276 | -10 | -112 | 2653 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.63 | 0.03 | 0.20 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1L | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | 233 | -1289 | 179 | -22 | -141 | 1431 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | 328 | -1977 | 276 | -10 | -217 | 2122 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.51 | 0.06 | 0.47 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | 233 | -2060 | 179 | -22 | -210 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | 328 | -3142 | 276 | -10 | -322 | 1147 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1B | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1C | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1D | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1E | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1F | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1G | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1H | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1I | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1J | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1K | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1L | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1M | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1N | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1O | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 1P | 343 | 233 | -2831 | 179 | -22 | -278 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.69 | 0.00 | 0.00 | 9.3 |
| 2 | 343 | 328 | -4307 | 276 | -10 | -427 | -271 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 0.99 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1B | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1C | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1D | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1E | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1F | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1G | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1H | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1I | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1J | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1K | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1L | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1M | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1N | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1O | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 1P | 381 | 233 | -3602 | 179 | -22 | -346 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.33 | 0.11 | 0.86 | 0.00 | 0.00 | 9.3 |
| 2 | 381 | 328 | -5472 | 276 | -10 | -532 | -2134 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.51 | 0.16 | 1.25 | 4.13 | 0.01 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 33**  NI 15509  NF 15512  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.6100  5.9364  21.5464  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | 164 | 3796 | -43 | -31 | -79 | -2298 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | 227 | 5781 | -51 | -52 | -92 | -3485 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.82 | 0.17 | 1.42 | 4.36 | 0.08 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1B | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1C | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1D | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1E | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1F | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1G | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1H | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1I | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1J | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1K | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1L | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1M | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1N | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1O | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1P | 39 | 164 | 3043 | -43 | -31 | -62 | -954 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.75 | 0.00 | 0.00 | 9.3 |
| 2 | 39 | 227 | 4634 | -51 | -52 | -72 | -1438 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.14 | 1.16 | 3.49 | 0.08 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | 164 | 2289 | -43 | -31 | -45 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.03 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | 227 | 3486 | -51 | -52 | -52 | 157 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.11 | 0.90 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1O | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | 164 | 1536 | -43 | -31 | -28 | 845 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | 227 | 2339 | -51 | -52 | -32 | 1302 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | 164 | 782 | -43 | -31 | -11 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | 227 | 1191 | -51 | -52 | -12 | 1996 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.47 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1G | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | 164 | 29 | -43 | -31 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | 227 | 44 | -51 | -52 | 8 | 2239 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.14 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1C | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | 164 | -724 | -43 | -31 | 22 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | 227 | -1103 | -51 | -52 | 28 | 2031 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1G | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | 164 | -1478 | -43 | -31 | 39 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | 227 | -2251 | -51 | -52 | 48 | 1372 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1I | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | 164 | -2231 | -43 | -31 | 56 | 161 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.04 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | 227 | -3398 | -51 | -52 | 68 | 262 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.11 | 0.88 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1B | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1C | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1D | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1E | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1F | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1G | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1H | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1I | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1J | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1K | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1L | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1M | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1N | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1O | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1P | 354 | 164 | -2985 | -43 | -31 | 73 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 2 | 354 | 227 | -4546 | -51 | -52 | 88 | -1299 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.14 | 1.14 | 3.43 | 0.08 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1B | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1C | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1D | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1E | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1F | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1G | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1H | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1I | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1J | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1K | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1L | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1M | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1N | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1O | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1P | 393 | 164 | -3738 | -43 | -31 | 89 | -2185 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.51 | 0.11 | 0.91 | 0.00 | 0.00 | 9.3 |
| 2 | 393 | 227 | -5693 | -51 | -52 | 108 | -3311 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.78 | 0.17 | 1.40 | 4.29 | 0.08 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 34** NI 15527 NF 15509 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

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| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1B | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1C | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1D | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1E | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1F | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1G | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1H | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1I | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1J | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1K | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1L | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1M | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1N | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1O | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1P | 0 | 45 | 3360 | 22 | 158 | 39 | -1666 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 2 | 0 | 53 | 5115 | 57 | 230 | 105 | -2573 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.60 | 0.19 | 1.69 | 3.86 | 0.35 | 9.3 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | 45 | 2688 | 22 | 158 | 31 | -553 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | 53 | 4093 | 57 | 230 | 84 | -878 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.21 | 0.16 | 1.47 | 3.09 | 0.35 | 9.3 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | 45 | 2016 | 22 | 158 | 23 | 313 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | 53 | 3071 | 57 | 230 | 62 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.13 | 1.24 | 2.32 | 0.35 | 22.3 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | 45 | 1344 | 22 | 158 | 15 | 931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | 53 | 2049 | 57 | 230 | 41 | 1383 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.10 | 1.01 | 1.54 | 0.35 | 22.3 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | 45 | 672 | 22 | 158 | 7 | 1302 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | 53 | 1027 | 57 | 230 | 20 | 1949 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.45 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | 45 | -1 | 22 | 158 | -1 | 1425 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.03 | 0.38 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | 53 | 4 | 57 | 230 | -1 | 2139 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1D | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1P | 221 | 45 | -673 | 22 | 158 | -9 | 1301 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.05 | 0.53 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | 53 | -1018 | 57 | 230 | -22 | 1953 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 258 | 45 | -1345 | 22 | 158 | -17 | 929 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | 53 | -2040 | 57 | 230 | -43 | 1390 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.10 | 1.01 | 1.54 | 0.35 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1L | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | 45 | -2017 | 22 | 158 | -25 | 310 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.09 | 0.83 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | 53 | -3062 | 57 | 230 | -64 | 450 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.11 | 0.13 | 1.23 | 2.31 | 0.35 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1B | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1C | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1E | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1F | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1G | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1H | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1I | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1J | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1K | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1L | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1M | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1N | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1O | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 1P | 331 | 45 | -2689 | 22 | 158 | -33 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.11 | 0.98 | 0.00 | 0.00 | 9.3 |
| 2 | 331 | 53 | -4084 | 57 | 230 | -85 | -865 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.16 | 1.46 | 3.08 | 0.35 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1B | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1C | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1D | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1E | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1F | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1G | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1H | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1I | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1J | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1K | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1L | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1M | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1N | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1O | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 1P | 368 | 45 | -3361 | 22 | 158 | -41 | -1670 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.53 | 0.24 | 9.3 |
| 2 | 368 | 53 | -5106 | 57 | 230 | -106 | -2557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.19 | 1.69 | 3.85 | 0.35 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 35**  NI 15506  NF 15527  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -50 | 2697 | -47 | 163 | -87 | -1801 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -84 | 4301 | -61 | 222 | -113 | -2770 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.64 | 0.17 | 1.50 | 3.24 | 0.34 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | -50 | 2235 | -47 | 163 | -70 | -909 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -84 | 3555 | -61 | 222 | -91 | -1350 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.31 | 0.15 | 1.33 | 2.68 | 0.34 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1B | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1C | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1D | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1F | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1G | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1H | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1I | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1J | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1K | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1L | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1M | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1N | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1O | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1P | 72 | -50 | 1774 | -47 | 163 | -53 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 2 | 72 | -84 | 2809 | -61 | 222 | -68 | -199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.12 | 1.16 | 2.12 | 0.34 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | -50 | 1313 | -47 | 163 | -36 | 374 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | -84 | 2064 | -61 | 222 | -46 | 682 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.99 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | -50 | 851 | -47 | 163 | -19 | 765 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | -84 | 1318 | -61 | 222 | -24 | 1293 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.83 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | -50 | 389 | -47 | 163 | -2 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.04 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | -84 | 572 | -61 | 222 | -2 | 1635 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.66 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | -50 | -72 | -47 | 163 | 15 | 1047 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | -84 | -174 | -61 | 222 | 20 | 1707 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.05 | 0.57 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 253 | -50 | -534 | -47 | 163 | 32 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 253 | -84 | -920 | -61 | 222 | 43 | 1509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1B | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1K | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 289 | -50 | -995 | -47 | 163 | 48 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 289 | -84 | -1665 | -61 | 222 | 65 | 1042 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1B | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1C | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1D | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1E | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1F | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1G | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1H | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1I | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1J | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1K | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1L | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1M | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1N | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1O | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 1P | 325 | -50 | -1456 | -47 | 163 | 65 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 9.3 |
| 2 | 325 | -84 | -2411 | -61 | 222 | 87 | 304 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.11 | 1.07 | 1.82 | 0.34 | 9.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1B | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1C | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1D | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1E | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1F | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1G | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1H | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1I | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1J | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1K | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1L | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1M | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1N | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1O | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1P | 362 | -50 | -1918 | -47 | 163 | 82 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 2 | 362 | -84 | -3157 | -61 | 222 | 109 | -702 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.16 | 0.13 | 1.24 | 2.38 | 0.34 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 36**  NI 15505  NF 15502  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.7900  5.9364  15.7264  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1B | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1C | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1D | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1E | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1F | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1G | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1H | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1I | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1J | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1K | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1L | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1M | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1N | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1O | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 1P | 0 | -4912 | 2838 | -13 | 189 | -14 | -2375 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.12 | 1.20 | 2.14 | 0.29 | 9.3 |
| 2 | 0 | -6978 | 4628 | -7 | 303 | 3 | -3706 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.59 | 0.19 | 2.05 | 3.49 | 0.47 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1B | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1C | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1D | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1E | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1F | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1G | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1H | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1I | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1J | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1K | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1L | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1M | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1N | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1O | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 1P | 40 | -4912 | 2310 | -13 | 189 | -9 | -1357 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 1.06 | 1.74 | 0.29 | 9.3 |
| 2 | 40 | -6978 | 3772 | -7 | 303 | 6 | -2044 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.22 | 0.16 | 1.80 | 2.84 | 0.47 | 9.3 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -4912 | 1781 | -13 | 189 | -4 | -548 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -6978 | 2916 | -7 | 303 | 9 | -722 | 3.08 | 3.08 | 3.08 | 4.62 | 4 | 0.07 | 0.14 | 1.56 | 2.20 | 0.47 | 22.3 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 119 | -4912 | 1253 | -13 | 189 | 1 | 52 | 3.08 | 3.08 | 4.62 | 3.08 | 6 | 0.03 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 119 | -6978 | 2061 | -7 | 303 | 12 | 263 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.05 | 0.12 | 1.11 | 1.55 | 0.47 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1B | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1C | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1D | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1E | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1F | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1G | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1H | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1I | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1J | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1K | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1L | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1M | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1O | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1P | 158 | -4912 | 725 | -13 | 189 | 6 | 444 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 2 | 158 | -6978 | 1205 | -7 | 303 | 15 | 909 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.08 | 0.09 | 0.95 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1B | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1C | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1D | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1E | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1F | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1G | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1H | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1I | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1J | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1K | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1L | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1M | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1N | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1O | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1P | 198 | -4912 | 196 | -13 | 189 | 11 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.04 | 0.49 | 0.00 | 0.00 | 22.3 |
| 2 | 198 | -6978 | 349 | -7 | 303 | 17 | 1216 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.07 | 0.79 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 237 | -4912 | -332 | -13 | 189 | 16 | 599 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 237 | -6978 | -507 | -7 | 303 | 20 | 1184 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1B | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1C | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1D | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1E | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1F | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1G | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1H | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1I | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1J | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1K | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1L | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1M | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1N | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1O | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1P | 277 | -4912 | -860 | -13 | 189 | 21 | 363 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 2 | 277 | -6978 | -1363 | -7 | 303 | 23 | 814 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.10 | 0.98 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 317 | -4912 | -1388 | -13 | 189 | 26 | -82 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 317 | -6978 | -2218 | -7 | 303 | 26 | 106 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.12 | 1.14 | 1.67 | 0.47 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1B | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1C | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1D | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1E | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1F | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1G | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1I | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1J | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1K | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1L | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1M | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1N | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1O | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 1P | 356 | -4912 | -1917 | -13 | 189 | 31 | -735 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.06 | 0.09 | 0.96 | 0.00 | 0.00 | 9.3 |
| 2 | 356 | -6978 | -3074 | -7 | 303 | 29 | -941 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.08 | 0.15 | 1.60 | 2.32 | 0.47 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1B | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1C | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1D | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1E | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1F | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1G | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1H | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1I | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1J | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1K | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1L | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1M | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1N | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1O | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 1P | 396 | -4912 | -2445 | -13 | 189 | 36 | -1598 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.11 | 1.10 | 1.84 | 0.29 | 9.3 |
| 2 | 396 | -6978 | -3930 | -7 | 303 | 32 | -2327 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.28 | 0.17 | 1.85 | 2.96 | 0.47 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 37**  NI 15526  NF 15505  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -3978 | 1954 | -195 | 115 | -351 | -923 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -5663 | 3182 | -288 | 188 | -518 | -1466 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.13 | 1.31 | 2.40 | 0.29 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | -3978 | 1492 | -195 | 115 | -280 | -300 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -5663 | 2436 | -288 | 188 | -413 | -450 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.05 | 0.10 | 1.11 | 1.84 | 0.29 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1C | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 72 | -3978 | 1031 | -195 | 115 | -210 | 156 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.03 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 72 | -5663 | 1690 | -288 | 188 | -309 | 296 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | -3978 | 569 | -195 | 115 | -139 | 446 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.04 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | -5663 | 945 | -288 | 188 | -205 | 773 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.06 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1K | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | -3978 | 108 | -195 | 115 | -69 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | -5663 | 199 | -288 | 188 | -101 | 979 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.08 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1K | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | -3978 | -354 | -195 | 115 | 2 | 523 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | -5663 | -547 | -288 | 188 | 3 | 917 | 3.08 | 3.08 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | -3978 | -816 | -195 | 115 | 73 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | -5663 | -1293 | -288 | 188 | 108 | 584 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.05 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1B | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1D | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1E | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1F | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1G | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1H | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1I | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1J | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1K | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1L | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1M | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1N | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1O | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1P | 253 | -3978 | -1277 | -195 | 115 | 143 | -66 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.06 | 0.60 | 0.00 | 0.00 | 22.3 |
| 2 | 253 | -5663 | -2039 | -288 | 188 | 212 | -18 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.04 | 0.09 | 1.00 | 1.54 | 0.29 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1B | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1C | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1D | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1E | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1F | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1G | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1H | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1I | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1J | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1K | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1L | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1M | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1N | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1O | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1P | 289 | -3978 | -1739 | -195 | 115 | 214 | -612 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |
| 2 | 289 | -5663 | -2784 | -288 | 188 | 316 | -890 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.07 | 0.11 | 1.20 | 2.10 | 0.29 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1B | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1C | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1D | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1E | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1F | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1G | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1H | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1I | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1J | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1K | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1L | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1M | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1N | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1O | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1P | 325 | -3978 | -2200 | -195 | 115 | 284 | -1324 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.84 | 0.00 | 0.00 | 9.3 |
| 2 | 325 | -5663 | -3530 | -288 | 188 | 420 | -2032 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.26 | 0.13 | 1.41 | 2.66 | 0.29 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1B | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1C | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1D | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1E | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1F | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1G | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1H | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1I | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1J | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1K | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1L | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1M | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1N | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1O | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1P | 362 | -3978 | -2662 | -195 | 115 | 355 | -2203 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.36 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 2 | 362 | -5663 | -4276 | -288 | 188 | 525 | -3443 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.58 | 0.16 | 1.61 | 3.22 | 0.29 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 38**  NI 15510  NF 15526  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.8950  5.5998  20.4948  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1B | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1C | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1E | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1F | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1G | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1H | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1I | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1J | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1K | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1L | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1M | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1N | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1O | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 1P | 0 | -3118 | 3636 | -137 | 74 | -259 | -2320 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.42 | 0.12 | 1.08 | 2.74 | 0.11 | 9.3 |
| 2 | 0 | -4460 | 5531 | -181 | 122 | -344 | -3552 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.65 | 0.18 | 1.73 | 4.17 | 0.19 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | -3118 | 2964 | -137 | 74 | -208 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.14 | 0.10 | 0.91 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | -4460 | 4509 | -181 | 122 | -277 | -1704 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.23 | 0.15 | 1.46 | 3.40 | 0.19 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | -3118 | 2292 | -137 | 74 | -158 | -138 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.02 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -4460 | 3487 | -181 | 122 | -210 | -232 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.03 | 0.12 | 1.20 | 2.63 | 0.19 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | -3118 | 1620 | -137 | 74 | -107 | 582 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | -4460 | 2465 | -181 | 122 | -144 | 864 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.07 | 0.09 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1J | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | -3118 | 948 | -137 | 74 | -57 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | -4460 | 1443 | -181 | 122 | -77 | 1583 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | -3118 | 275 | -137 | 74 | -6 | 1280 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | -4460 | 420 | -181 | 122 | -10 | 1926 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1D | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1P | 221 | -3118 | -397 | -137 | 74 | 44 | 1258 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | -4460 | -602 | -181 | 122 | 57 | 1893 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1P | 258 | -3118 | -1069 | -137 | 74 | 95 | 988 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | -4460 | -1624 | -181 | 122 | 124 | 1483 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.18 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1L | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | -3118 | -1741 | -137 | 74 | 145 | 471 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | -4460 | -2646 | -181 | 122 | 190 | 697 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.06 | 0.10 | 0.81 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1B | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1C | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1D | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1E | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1F | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1G | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1H | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1I | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1J | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1K | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1M | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1N | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1O | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1P | 331 | -3118 | -2413 | -137 | 74 | 196 | -294 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 2 | 331 | -4460 | -3668 | -181 | 122 | 257 | -465 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.04 | 0.13 | 1.25 | 2.77 | 0.19 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1B | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1C | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1D | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1E | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1F | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1G | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1H | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1I | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1J | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1K | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1L | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1M | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1N | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1O | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 1P | 368 | -3118 | -3085 | -137 | 74 | 246 | -1306 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.18 | 0.10 | 0.94 | 0.00 | 0.00 | 9.3 |
| 2 | 368 | -4460 | -4690 | -181 | 122 | 324 | -2004 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.29 | 0.15 | 1.51 | 3.54 | 0.19 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 39**  NI 15513  NF 15510  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.6100  5.9364  21.5464  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1B | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1C | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1D | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1E | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1F | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1G | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1H | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1I | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1J | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1K | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1L | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1M | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1N | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1O | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 1P | 0 | -2227 | 3757 | -192 | 84 | -381 | -2441 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.48 | 0.12 | 1.10 | 2.83 | 0.13 | 9.3 |
| 2 | 0 | -3195 | 5724 | -272 | 128 | -541 | -3718 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.74 | 0.19 | 1.73 | 4.32 | 0.20 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1B | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1C | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1D | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1E | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1F | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1G | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1H | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1I | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1J | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1K | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1L | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1M | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1N | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1O | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1P | 39 | -2227 | 3004 | -192 | 84 | -306 | -1113 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.17 | 0.10 | 0.92 | 0.00 | 0.00 | 9.3 |
| 2 | 39 | -3195 | 4577 | -272 | 128 | -434 | -1694 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.27 | 0.15 | 1.44 | 3.45 | 0.20 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -2227 | 2250 | -192 | 84 | -231 | -80 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.03 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -3195 | 3429 | -272 | 128 | -327 | -121 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.04 | 0.12 | 1.16 | 2.59 | 0.20 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | -2227 | 1497 | -192 | 84 | -155 | 656 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | -3195 | 2282 | -272 | 128 | -220 | 1002 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.11 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | -2227 | 743 | -192 | 84 | -80 | 1096 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | -3195 | 1134 | -272 | 128 | -113 | 1673 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.26 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1G | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | -2227 | -10 | -192 | 84 | -5 | 1240 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.24 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | -3195 | -13 | -272 | 128 | -6 | 1894 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.37 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | -2227 | -763 | -192 | 84 | 71 | 1088 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | -3195 | -1160 | -272 | 128 | 102 | 1663 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.26 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | -2227 | -1517 | -192 | 84 | 146 | 639 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | -3195 | -2308 | -272 | 128 | 209 | 982 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.11 | 0.09 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1I | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | -2227 | -2270 | -192 | 84 | 221 | -105 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.03 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | -3195 | -3455 | -272 | 128 | 316 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.04 | 0.12 | 1.16 | 2.61 | 0.20 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1B | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1C | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1D | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1E | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1F | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1G | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1H | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1I | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1J | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1K | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1L | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1M | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1N | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1O | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1P | 354 | -2227 | -3024 | -192 | 84 | 297 | -1145 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 2 | 354 | -3195 | -4603 | -272 | 128 | 423 | -1734 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.28 | 0.15 | 1.45 | 3.47 | 0.20 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1B | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1C | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1D | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1E | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1F | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1G | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1H | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1I | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1J | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1K | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1L | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1M | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1N | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1O | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 1P | 393 | -2227 | -3777 | -192 | 84 | 372 | -2482 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.49 | 0.12 | 1.11 | 2.85 | 0.13 | 9.3 |
| 2 | 393 | -3195 | -5750 | -272 | 128 | 530 | -3768 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.75 | 0.19 | 1.73 | 4.34 | 0.20 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 40** NI 15516 NF 15513 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -1460 | 3568 | 60 | -35 | 137 | -1538 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.30 | 0.11 | 0.92 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -2119 | 5408 | 94 | -88 | 212 | -2372 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.47 | 0.17 | 1.50 | 4.08 | 0.14 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1B | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1C | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1D | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1E | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1F | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1G | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1H | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1I | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1J | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1K | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1L | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1M | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1N | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1O | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 1P | 38 | -1460 | 2797 | 60 | -35 | 115 | -326 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.09 | 0.74 | 0.00 | 0.00 | 9.3 |
| 2 | 38 | -2119 | 4243 | 94 | -88 | 176 | -534 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.05 | 0.14 | 1.23 | 3.20 | 0.14 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 76 | -1460 | 2026 | 60 | -35 | 92 | 593 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 76 | -2119 | 3078 | 94 | -88 | 140 | 860 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.12 | 0.10 | 0.86 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1N | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | -1460 | 1255 | 60 | -35 | 69 | 1218 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | -2119 | 1913 | 94 | -88 | 104 | 1811 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.34 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1F | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | -1460 | 484 | 60 | -35 | 46 | 1549 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | -2119 | 748 | 94 | -88 | 69 | 2318 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.45 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | -1460 | -287 | 60 | -35 | 24 | 1587 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | -2119 | -418 | 94 | -88 | 33 | 2381 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | -1460 | -1057 | 60 | -35 | 1 | 1331 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | -2119 | -1583 | 94 | -88 | -3 | 2000 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | -1460 | -1828 | 60 | -35 | -22 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | -2119 | -2748 | 94 | -88 | -39 | 1175 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.09 | 0.79 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | -1460 | -2599 | 60 | -35 | -44 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | -2119 | -3913 | 94 | -88 | -74 | -94 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.01 | 0.13 | 1.15 | 2.95 | 0.14 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1B | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1C | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1D | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1E | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1F | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1G | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1H | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1I | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1J | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1K | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1L | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1M | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1N | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 1O | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 343 | -1460 | -3370 | 60 | -35 | -67 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.10 | 0.87 | 0.00 | 0.00 | 9.3 |
| 2 | 343 | -2119 | -5078 | 94 | -88 | -110 | -1806 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.34 | 0.16 | 1.43 | 3.83 | 0.14 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1B | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1C | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1D | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1E | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1F | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1G | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1H | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1I | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1J | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1K | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1L | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1M | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1N | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1O | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 1P | 381 | -1460 | -4141 | 60 | -35 | -90 | -2630 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.55 | 0.12 | 1.05 | 3.12 | 0.05 | 9.3 |
| 2 | 381 | -2119 | -6243 | 94 | -88 | -146 | -3962 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.84 | 0.19 | 1.70 | 4.71 | 0.14 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 41** NI 15519 NF 15516 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -1020 | 2332 | -315 | -34 | -552 | -1080 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -1488 | 3676 | -453 | -92 | -793 | -1561 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.30 | 0.12 | 1.08 | 2.77 | 0.14 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | -1020 | 1853 | -315 | -34 | -440 | -337 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.10 | 0.06 | 0.51 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -1488 | 2914 | -453 | -92 | -632 | -390 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.14 | 0.10 | 0.90 | 0.00 | 0.00 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | -1020 | 1374 | -315 | -34 | -328 | 237 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.07 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 71 | -1488 | 2152 | -453 | -92 | -471 | 509 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | -1020 | 896 | -315 | -34 | -216 | 640 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | -1488 | 1390 | -453 | -92 | -310 | 1139 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.21 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | -1020 | 417 | -315 | -34 | -104 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.16 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | -1488 | 628 | -453 | -92 | -149 | 1497 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | -1020 | -62 | -315 | -34 | 7 | 936 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | -1488 | -134 | -453 | -92 | 12 | 1585 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | -1020 | -541 | -315 | -34 | 119 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | -1488 | -895 | -453 | -92 | 173 | 1402 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.27 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | -1020 | -1020 | -315 | -34 | 231 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | -1488 | -1657 | -453 | -92 | 334 | 949 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | -1020 | -1498 | -315 | -34 | 343 | 104 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.07 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 284 | -1488 | -2419 | -453 | -92 | 495 | 224 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.10 | 0.09 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1B | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1C | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1D | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1E | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1F | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1G | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1H | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1I | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1J | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1K | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1L | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1M | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1N | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1O | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1P | 320 | -1020 | -1977 | -315 | -34 | 455 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 2 | 320 | -1488 | -3181 | -453 | -92 | 656 | -770 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.15 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1B | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1C | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1D | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1E | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1F | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1G | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1H | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1I | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1J | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1K | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1L | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1M | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1N | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1O | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1P | 355 | -1020 | -2456 | -315 | -34 | 567 | -1301 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.08 | 0.65 | 0.00 | 0.00 | 9.3 |
| 2 | 355 | -1488 | -3943 | -453 | -92 | 817 | -2036 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.13 | 1.15 | 2.97 | 0.14 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 42**  NI 14446  NF 15519  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.4925  5.6610  16.1535  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -496 | 3191 | -138 | 20 | -291 | -2868 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -748 | 5252 | -198 | -42 | -419 | -4964 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.76 | 0.16 | 1.30 | 3.96 | 0.06 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | -496 | 2678 | -138 | 20 | -240 | -1784 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | -748 | 4434 | -198 | -42 | -345 | -3175 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.13 | 1.11 | 3.34 | 0.06 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | -496 | 2165 | -138 | 20 | -189 | -889 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.07 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -748 | 3617 | -198 | -42 | -272 | -1687 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.36 | 0.11 | 0.93 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1B | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1C | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1D | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1E | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1F | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1G | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1H | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1I | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1J | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1K | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1L | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1M | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1N | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1O | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1P | 111 | -496 | 1652 | -138 | 20 | -138 | -184 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 2 | 111 | -748 | 2799 | -198 | -42 | -199 | -502 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.09 | 0.09 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1B | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1C | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1D | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1E | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1F | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1G | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1H | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1I | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1J | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1K | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1L | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1M | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1N | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1O | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1P | 148 | -496 | 1139 | -138 | 20 | -87 | 331 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 2 | 148 | -748 | 1981 | -198 | -42 | -126 | 381 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1B | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1C | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1D | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1E | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1G | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1H | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1I | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1J | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1K | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1L | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1M | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1N | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1O | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 1P | 185 | -496 | 625 | -138 | 20 | -36 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |
| 2 | 185 | -748 | 1163 | -198 | -42 | -53 | 962 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1B | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1C | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1D | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1E | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1F | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1G | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1H | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1I | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1J | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1K | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1L | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1M | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1N | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1O | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1P | 222 | -496 | 112 | -138 | 20 | 15 | 794 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.16 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 2 | 222 | -748 | 346 | -198 | -42 | 20 | 1241 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.26 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1B | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1C | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1D | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1E | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1F | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1G | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1H | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1I | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1J | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1K | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1L | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1M | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1N | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1O | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 1P | 259 | -496 | -401 | -138 | 20 | 66 | 740 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.14 | 0.00 | 0.00 | 22.3 |
| 2 | 259 | -748 | -472 | -198 | -42 | 94 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 296 | -496 | -914 | -138 | 20 | 117 | 498 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 296 | -748 | -1290 | -198 | -42 | 167 | 892 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1B | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1C | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1D | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1E | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1F | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1G | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1H | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1I | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1J | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1K | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1L | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1M | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1N | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1O | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 1P | 333 | -496 | -1427 | -138 | 20 | 168 | 65 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.04 | 0.36 | 0.00 | 0.00 | 9.3 |
| 2 | 333 | -748 | -2107 | -198 | -42 | 240 | 265 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.05 | 0.07 | 0.56 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1B | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1C | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1D | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1E | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1F | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1G | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1H | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1I | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1J | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1K | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1L | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1M | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1N | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1O | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 1P | 369 | -496 | -1940 | -138 | 20 | 219 | -557 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.49 | 0.00 | 0.00 | 9.3 |
| 2 | 369 | -748 | -2925 | -198 | -42 | 313 | -665 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.09 | 0.77 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 44** NI 15529 NF 15502 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 5.7400 5.0184 15.5709 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1B | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1C | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1D | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1E | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1F | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1G | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1H | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1I | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1J | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1K | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1L | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1M | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1N | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1O | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 1P | 0 | 186 | 8603 | -636 | 187 | -923 | -10510 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.51 | 4.62 | 0.17 | 11.2 |
| 2 | 0 | 259 | 13060 | -910 | 431 | -1317 | -15161 | 3.08 | 6.16 | 4.62 | 9.24 | 2 | 0.85 | 0.27 | 2.45 | 7.01 | 0.38 | 11.2 |

apost= -- aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1B | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1C | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1D | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1E | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1F | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1G | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1H | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1I | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1J | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1K | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1L | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1M | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1N | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1O | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 1P | 33 | 186 | 8160 | -636 | 187 | -715 | -9061 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.16 | 1.44 | 4.38 | 0.17 | 11.2 |
| 2 | 33 | 259 | 12365 | -910 | 431 | -1020 | -12967 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.87 | 0.25 | 2.34 | 6.63 | 0.38 | 11.2 |

apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1B | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1C | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1D | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1E | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1F | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1G | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1H | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1I | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1J | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1K | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1L | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1M | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1N | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1O | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 1P | 65 | 186 | 7717 | -636 | 187 | -507 | -6466 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.71 | 0.15 | 1.37 | 4.14 | 0.17 | 11.2 |
| 2 | 65 | 259 | 11670 | -910 | 431 | -722 | -9041 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.24 | 2.24 | 6.26 | 0.38 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1B | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1C | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1D | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1E | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1F | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1G | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1H | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1I | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1J | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1K | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1L | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1M | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1N | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1O | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 1P | 98 | 186 | 7273 | -636 | 187 | -299 | -4016 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.66 | 0.14 | 1.31 | 3.90 | 0.17 | 19.1 |
| 2 | 98 | 259 | 10976 | -910 | 431 | -425 | -5341 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.23 | 2.13 | 5.89 | 0.38 | 15.1 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 15.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1B | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1C | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1D | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1E | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1F | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1G | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1H | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1I | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1J | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1K | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1L | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1M | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1N | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1O | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 1P | 131 | 186 | 6830 | -636 | 187 | -91 | -1711 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.14 | 1.24 | 3.66 | 0.17 | 19.1 |
| 2 | 131 | 259 | 10281 | -910 | 431 | -127 | -1869 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.22 | 2.03 | 5.52 | 0.38 | 16.0 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1B | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1C | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1D | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1E | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1F | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1G | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1H | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1I | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1J | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1K | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1L | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1M | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1N | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1O | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 1P | 163 | 186 | 6387 | -636 | 187 | 117 | 449 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.13 | 1.17 | 3.43 | 0.17 | 19.1 |
| 2 | 163 | 259 | 9586 | -910 | 431 | 170 | 1376 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.21 | 1.92 | 5.14 | 0.38 | 17.0 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 17.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1B | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1C | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1D | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1E | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1F | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1G | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1H | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1I | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1J | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1K | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1L | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1M | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1N | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1O | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 1P | 196 | 186 | 5944 | -636 | 187 | 325 | 2464 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.12 | 1.10 | 3.19 | 0.17 | 19.1 |
| 2 | 196 | 259 | 8891 | -910 | 431 | 467 | 4395 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.19 | 1.82 | 4.77 | 0.38 | 18.2 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 18.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1B | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1C | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1D | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1E | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1F | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1G | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1H | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1I | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1J | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1K | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1L | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1M | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1N | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 1P | 229 | 186 | 5501 | -636 | 187 | 533 | 4334 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.11 | 1.04 | 2.95 | 0.17 | 19.1 |
| 2 | 229 | 259 | 8196 | -910 | 431 | 765 | 7187 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.18 | 1.71 | 4.40 | 0.38 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1B | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1C | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1D | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1E | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1F | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1G | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1H | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1I | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1J | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1K | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1L | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1M | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1N | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1O | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1P | 261 | 186 | 5057 | -636 | 187 | 741 | 6060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 2 | 261 | 259 | 7502 | -910 | 431 | 1062 | 9751 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.17 | 1.50 | 4.02 | 0.38 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1O | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | 186 | 4614 | -636 | 187 | 949 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | 259 | 6807 | -910 | 431 | 1360 | 12089 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.81 | 0.16 | 1.34 | 3.65 | 0.38 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1O | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | 186 | 4171 | -636 | 187 | 1157 | 9076 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 259 | 6112 | -910 | 431 | 1657 | 14200 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.95 | 0.15 | 1.25 | 3.28 | 0.38 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 43** NI 15502 NF 14958 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.2300 5.4468 16.4893 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 0 | 360 | -841 | 454 | -53 | 959 | 8564 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | 492 | -1647 | 650 | -144 | 1368 | 13500 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.90 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1D | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1H | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1L | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1P | 36 | 360 | -1349 | 454 | -53 | 798 | 8175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | 492 | -2447 | 650 | -144 | 1137 | 12774 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.86 | 0.06 | 0.47 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | 360 | -1857 | 454 | -53 | 637 | 7606 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.34 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | 492 | -3247 | 650 | -144 | 906 | 11763 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1P | 107 | 360 | -2365 | 454 | -53 | 476 | 6857 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | 492 | -4046 | 650 | -144 | 675 | 10469 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | 360 | -2873 | 454 | -53 | 315 | 5927 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | 492 | -4846 | 650 | -144 | 445 | 8890 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.10 | 0.89 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1N | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | 360 | -3381 | 454 | -53 | 154 | 4817 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | 492 | -5646 | 650 | -144 | 214 | 7028 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.11 | 1.01 | 3.03 | 0.13 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1B | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1C | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1D | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1E | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1F | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1G | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1H | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1I | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1J | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1K | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1L | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1M | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1N | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1O | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1P | 213 | 360 | -3889 | 454 | -53 | -7 | 3526 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 2 | 213 | 492 | -6446 | 650 | -144 | -17 | 4882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.13 | 1.13 | 3.46 | 0.13 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1B | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1C | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1D | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1E | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1F | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1G | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1H | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1I | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1J | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1K | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1L | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1M | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1N | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1O | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1P | 249 | 360 | -4398 | 454 | -53 | -168 | 2055 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 2 | 249 | 492 | -7246 | 650 | -144 | -248 | 2452 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.42 | 0.14 | 1.25 | 3.89 | 0.13 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1B | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1C | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1D | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1E | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1F | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1G | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1H | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1I | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1J | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1K | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1L | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1M | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1N | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1O | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1P | 284 | 360 | -4906 | 454 | -53 | -329 | 403 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.80 | 0.00 | 0.00 | 19.1 |
| 2 | 284 | 492 | -8045 | 650 | -144 | -479 | -263 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.15 | 1.37 | 4.32 | 0.13 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1B | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1C | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1D | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1E | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1F | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1G | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1H | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1I | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1J | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1K | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1L | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1M | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1N | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1O | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1P | 320 | 360 | -5414 | 454 | -53 | -490 | -1429 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 2 | 320 | 492 | -8845 | 650 | -144 | -710 | -3261 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.55 | 0.17 | 1.50 | 4.75 | 0.13 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1B | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1C | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1E | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1F | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1G | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1H | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1I | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1J | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1K | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1L | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1M | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1N | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1O | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1P | 355 | 360 | -5922 | 454 | -53 | -651 | -3441 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.58 | 0.11 | 0.95 | 0.00 | 0.00 | 11.2 |
| 2 | 355 | 492 | -9645 | 650 | -144 | -941 | -6543 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.73 | 0.18 | 1.62 | 5.17 | 0.13 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 46**  NI 15524  NF 15505  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  5.7400  5.0184  15.5709  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1B | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1C | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1D | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1E | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1F | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1G | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1H | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1I | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1J | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1K | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1L | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1M | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1N | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1O | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 1P | 0 | 141 | 9112 | -385 | -266 | -491 | -14013 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.18 | 1.67 | 4.89 | 0.23 | 11.2 |
| 2 | 0 | 280 | 13960 | -541 | -409 | -682 | -20356 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.98 | 0.28 | 2.56 | 7.49 | 0.36 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1B | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1C | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1D | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1E | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1F | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1G | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1H | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1I | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1J | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1K | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1L | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1M | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1N | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1O | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 1P | 33 | 141 | 8669 | -385 | -266 | -365 | -12475 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.17 | 1.60 | 4.65 | 0.23 | 11.2 |
| 2 | 33 | 280 | 13266 | -541 | -409 | -505 | -18000 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.87 | 0.27 | 2.46 | 7.12 | 0.36 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1B | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1C | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1D | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1E | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1F | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1G | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1H | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1I | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1J | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1K | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1L | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1M | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1N | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1O | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 1P | 65 | 141 | 8226 | -385 | -266 | -239 | -9714 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.17 | 1.54 | 4.41 | 0.23 | 11.2 |
| 2 | 65 | 280 | 12572 | -541 | -409 | -329 | -13777 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.26 | 2.35 | 6.75 | 0.36 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1B | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1C | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1D | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1F | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1G | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1H | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1I | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1J | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1K | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1L | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1M | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1N | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1O | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 1P | 98 | 141 | 7782 | -385 | -266 | -114 | -7098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.16 | 1.47 | 4.18 | 0.23 | 19.1 |
| 2 | 98 | 280 | 11878 | -541 | -409 | -152 | -9780 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.24 | 2.25 | 6.37 | 0.36 | 14.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 14.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1B | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1C | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1D | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1E | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1F | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1G | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1H | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1I | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1J | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1K | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1L | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1M | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1N | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1O | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 1P | 131 | 141 | 7339 | -385 | -266 | 12 | -4627 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.15 | 1.40 | 3.94 | 0.23 | 19.1 |
| 2 | 131 | 280 | 11184 | -541 | -409 | 25 | -6011 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.23 | 2.14 | 6.00 | 0.36 | 15.0 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1B | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1C | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1D | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1E | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1F | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1G | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1H | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1I | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1J | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1K | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1L | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1M | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1N | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1O | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 1P | 163 | 141 | 6896 | -385 | -266 | 138 | -2301 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.38 | 0.14 | 1.33 | 3.70 | 0.23 | 19.1 |
| 2 | 163 | 280 | 10490 | -541 | -409 | 202 | -2469 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.22 | 2.04 | 5.63 | 0.36 | 15.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1B | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1C | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1D | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1E | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1F | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1G | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1H | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1I | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1J | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1K | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1L | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1M | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1N | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1O | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 1P | 196 | 141 | 6453 | -385 | -266 | 264 | -120 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.14 | 1.27 | 3.46 | 0.23 | 19.1 |
| 2 | 196 | 280 | 9796 | -541 | -409 | 379 | 847 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.21 | 1.93 | 5.26 | 0.36 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1B | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1C | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1D | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1E | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1F | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1G | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1H | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1I | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1J | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1K | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1L | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1M | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1N | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1O | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 1P | 229 | 141 | 6010 | -385 | -266 | 389 | 1916 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.20 | 3.22 | 0.23 | 19.1 |
| 2 | 229 | 280 | 9102 | -541 | -409 | 556 | 3936 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.65 | 0.20 | 1.83 | 4.88 | 0.36 | 17.9 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 17.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1B | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1C | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1D | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1E | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1F | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1G | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1H | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1I | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1J | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1K | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1L | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1M | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1N | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1O | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 1P | 261 | 141 | 5566 | -385 | -266 | 515 | 3808 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.63 | 0.12 | 1.13 | 2.99 | 0.23 | 19.1 |
| 2 | 261 | 280 | 8408 | -541 | -409 | 732 | 6797 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.75 | 0.18 | 1.72 | 4.51 | 0.36 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1B | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1C | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1D | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1E | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1F | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1G | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1H | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1I | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1J | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1K | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1L | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1M | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1N | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1O | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 1P | 294 | 141 | 5123 | -385 | -266 | 641 | 5554 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.11 | 1.07 | 2.75 | 0.23 | 19.1 |
| 2 | 294 | 280 | 7714 | -541 | -409 | 909 | 9432 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.17 | 1.51 | 4.14 | 0.36 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1O | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | 141 | 4680 | -385 | -266 | 767 | 7156 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 280 | 7020 | -541 | -409 | 1086 | 11840 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.16 | 1.41 | 3.77 | 0.36 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 45**  NI 15505  NF 14957  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.2300  5.4468  16.4893  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza Fx,M | Bielle | V,Mx | aswta aswto cmq/m | PASSO cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | | | | | |
| 1A | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | 324 | -820 | 549 | -94 | 1135 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | 561 | -1884 | 774 | -147 | 1607 | 11950 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1D | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1H | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1L | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 1P | 36 | 324 | -1328 | 549 | -94 | 940 | 6850 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.76 | 0.03 | 0.30 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | 561 | -2684 | 774 | -147 | 1332 | 11139 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | 324 | -1836 | 549 | -94 | 745 | 6288 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | 561 | -3484 | 774 | -147 | 1058 | 10045 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1P | 107 | 324 | -2344 | 549 | -94 | 551 | 5546 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | 561 | -4283 | 774 | -147 | 783 | 8666 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | 324 | -2852 | 549 | -94 | 356 | 4624 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | 561 | -5083 | 774 | -147 | 508 | 7003 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1J | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | 324 | -3360 | 549 | -94 | 161 | 3521 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.59 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | 561 | -5883 | 774 | -147 | 234 | 5057 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.16 | 0.13 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1B | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1C | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1D | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1E | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1F | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1G | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1H | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1I | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1J | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1K | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1L | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1M | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1N | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1O | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1P | 213 | 324 | -3868 | 549 | -94 | -34 | 2237 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 2 | 213 | 561 | -6683 | 774 | -147 | -41 | 2826 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.48 | 0.13 | 1.17 | 3.59 | 0.13 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1B | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1C | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1D | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1E | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1F | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1G | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1H | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1I | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1J | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1K | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1L | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1M | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1N | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1O | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1P | 249 | 324 | -4377 | 549 | -94 | -229 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.14 | 0.08 | 0.76 | 0.00 | 0.00 | 19.1 |
| 2 | 249 | 561 | -7483 | 774 | -147 | -316 | 312 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.14 | 1.29 | 4.01 | 0.13 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1B | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1C | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1D | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1E | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1F | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1G | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1H | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1I | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1J | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1K | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1L | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1M | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1N | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1O | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1P | 284 | 324 | -4885 | 549 | -94 | -424 | -871 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 2 | 284 | 561 | -8282 | 774 | -147 | -591 | -2487 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.16 | 1.41 | 4.44 | 0.13 | 19.1 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1B | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1C | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1D | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1E | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1F | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1G | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1H | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1I | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1J | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1K | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1L | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1M | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1N | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1O | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 1P | 320 | 324 | -5393 | 549 | -94 | -618 | -2695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.10 | 0.92 | 0.00 | 0.00 | 11.2 |
| 2 | 320 | 561 | -9082 | 774 | -147 | -865 | -5570 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.17 | 1.53 | 4.87 | 0.13 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1B | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1C | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1D | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1E | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1F | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1G | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1I | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1J | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1K | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1L | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1M | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1N | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1O | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 1P | 355 | 324 | -5901 | 549 | -94 | -813 | -4700 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.11 | 1.00 | 0.00 | 0.00 | 11.2 |
| 2 | 355 | 561 | -9882 | 774 | -147 | -1140 | -8936 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.66 | 5.30 | 0.13 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 48**  NI 15523  NF 15526  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  10.6600  5.0184  20.4909  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1B | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1C | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1D | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1E | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1F | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1G | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1H | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1I | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1J | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1K | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1L | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1M | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1N | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1O | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 1P | 0 | 232 | 10850 | -287 | 165 | -332 | -16112 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.82 | 5.82 | 0.15 | 11.2 |
| 2 | 0 | 400 | 16010 | -404 | 213 | -459 | -22709 | 3.08 | 6.16 | 6.16 | 12.32 | 2 | 0.96 | 0.30 | 2.65 | 8.59 | 0.19 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1B | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1C | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1D | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1E | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1F | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1G | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1H | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1I | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1J | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1K | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1L | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1M | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1N | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1O | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 1P | 33 | 232 | 10246 | -287 | 165 | -238 | -14293 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.19 | 1.73 | 5.50 | 0.15 | 11.2 |
| 2 | 33 | 400 | 15106 | -404 | 213 | -327 | -20026 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.97 | 0.28 | 2.52 | 8.10 | 0.19 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1B | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1C | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1D | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1E | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1F | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1G | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1H | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1I | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1J | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1K | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1L | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1M | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1N | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1O | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 1P | 65 | 232 | 9642 | -287 | 165 | -144 | -11044 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.18 | 1.64 | 5.17 | 0.15 | 11.2 |
| 2 | 65 | 400 | 14203 | -404 | 213 | -196 | -15238 | 3.08 | 6.16 | 4.62 | 9.24 | 2 | 0.85 | 0.27 | 2.38 | 7.62 | 0.19 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1B | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1C | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1D | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1E | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1F | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1G | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1H | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1J | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1K | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1L | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1M | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1N | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1O | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 1P | 98 | 232 | 9038 | -287 | 165 | -50 | -7992 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.88 | 0.17 | 1.55 | 4.85 | 0.15 | 19.1 |
| 2 | 98 | 400 | 13299 | -404 | 213 | -64 | -10745 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.89 | 0.25 | 2.24 | 7.14 | 0.19 | 13.4 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1B | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1C | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1D | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1E | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1F | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1G | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1H | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1I | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1J | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1K | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1L | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1M | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1N | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1O | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 1P | 131 | 232 | 8434 | -287 | 165 | 44 | -5137 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.16 | 1.46 | 4.52 | 0.15 | 19.1 |
| 2 | 131 | 400 | 12395 | -404 | 213 | 68 | -6547 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.23 | 2.11 | 6.65 | 0.19 | 14.3 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 14.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1B | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1C | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1D | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1E | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1F | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1G | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1H | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1I | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1J | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1K | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1L | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1M | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1N | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1O | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 1P | 163 | 232 | 7829 | -287 | 165 | 138 | -2480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.15 | 1.37 | 4.20 | 0.15 | 19.1 |
| 2 | 163 | 400 | 11492 | -404 | 213 | 200 | -2645 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.22 | 1.97 | 6.17 | 0.19 | 15.4 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1B | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1C | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1D | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1E | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1F | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1G | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1H | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1I | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1J | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1K | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1L | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1M | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1N | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1O | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 1P | 196 | 232 | 7225 | -287 | 165 | 232 | -20 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.07 | 0.14 | 1.27 | 3.88 | 0.15 | 19.1 |
| 2 | 196 | 400 | 10588 | -404 | 213 | 332 | 963 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.17 | 0.20 | 1.83 | 5.68 | 0.19 | 16.6 |

apost= 3.08 aant= -- ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 16.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1B | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1C | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1D | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1E | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1F | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1G | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1H | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1I | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1J | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1K | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1L | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1M | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1N | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1O | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 1P | 229 | 232 | 6621 | -287 | 165 | 325 | 2242 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.13 | 1.18 | 3.55 | 0.15 | 19.1 |
| 2 | 229 | 400 | 9684 | -404 | 213 | 464 | 4275 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.19 | 1.70 | 5.20 | 0.19 | 18.0 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1B | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1D | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1E | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1F | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1G | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1H | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1I | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1J | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1K | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1L | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1M | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1N | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1O | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 1P | 261 | 232 | 6017 | -287 | 165 | 419 | 4307 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.12 | 1.09 | 3.23 | 0.15 | 19.1 |
| 2 | 261 | 400 | 8780 | -404 | 213 | 596 | 7292 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.17 | 1.56 | 4.71 | 0.19 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1O | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | 232 | 5413 | -287 | 165 | 513 | 6175 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | 400 | 7877 | -404 | 213 | 728 | 10014 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.16 | 1.31 | 4.23 | 0.19 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1O | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | 232 | 4809 | -287 | 165 | 607 | 7845 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 400 | 6973 | -404 | 213 | 860 | 12440 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.83 | 0.14 | 1.12 | 3.74 | 0.19 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 47** NI 15526 NF 14959 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 11.5700 5.4468 21.8293 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | 174 | -230 | 573 | -218 | 1204 | 7886 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.03 | 0.32 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | 293 | -899 | 800 | -326 | 1701 | 12510 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.84 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1H | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1L | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 1P | 36 | 174 | -928 | 573 | -218 | 1000 | 7680 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | 293 | -1945 | 800 | -326 | 1417 | 12005 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.06 | 0.63 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | 174 | -1625 | 573 | -218 | 797 | 7227 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | 293 | -2992 | 800 | -326 | 1133 | 11128 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1P | 107 | 174 | -2323 | 573 | -218 | 593 | 6526 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | 293 | -4038 | 800 | -326 | 849 | 9880 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.82 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | 174 | -3021 | 573 | -218 | 390 | 5578 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | 293 | -5084 | 800 | -326 | 565 | 8260 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.12 | 1.13 | 2.73 | 0.29 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1J | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1N | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | 174 | -3719 | 573 | -218 | 186 | 4381 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.80 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | 293 | -6130 | 800 | -326 | 281 | 6269 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.69 | 0.14 | 1.28 | 3.29 | 0.29 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1B | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1C | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1D | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1E | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1F | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1G | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1H | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1I | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1J | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1K | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1L | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1M | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1N | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1O | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 1P | 213 | 174 | -4416 | 573 | -218 | -17 | 2937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.49 | 0.10 | 0.91 | 0.00 | 0.00 | 19.1 |
| 2 | 213 | 293 | -7176 | 800 | -326 | -3 | 3906 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.65 | 0.15 | 1.44 | 3.85 | 0.29 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1B | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1C | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1D | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1E | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1F | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1G | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1H | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1I | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1J | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1K | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1L | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1M | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1N | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1O | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 1P | 249 | 174 | -5114 | 573 | -218 | -221 | 1245 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.11 | 1.01 | 2.74 | 0.19 | 19.1 |
| 2 | 249 | 293 | -8222 | 800 | -326 | -287 | 1172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.17 | 1.60 | 4.41 | 0.29 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1B | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1C | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1D | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1E | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1F | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1G | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1H | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1I | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1J | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1K | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1L | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1M | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1N | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1O | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 1P | 284 | 174 | -5812 | 573 | -218 | -424 | -695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.12 | 3.12 | 0.19 | 19.1 |
| 2 | 284 | 293 | -9268 | 800 | -326 | -571 | -1933 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.33 | 0.19 | 1.76 | 4.97 | 0.29 | 18.1 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 18.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1B | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1C | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1D | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1E | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1F | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1G | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1H | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1I | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1J | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1K | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1L | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1M | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1N | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1O | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 1P | 320 | 174 | -6509 | 573 | -218 | -628 | -2882 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.13 | 1.22 | 3.49 | 0.19 | 11.2 |
| 2 | 320 | 293 | -10314 | 800 | -326 | -855 | -5410 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.89 | 0.21 | 1.92 | 5.53 | 0.29 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1B | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1C | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1D | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1E | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1F | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1G | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1H | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1I | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1J | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1K | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1M | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1N | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1O | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 1P | 355 | 174 | -7207 | 573 | -218 | -831 | -5317 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.15 | 1.33 | 3.87 | 0.19 | 11.2 |
| 2 | 355 | 293 | -11360 | 800 | -326 | -1139 | -9259 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.77 | 0.23 | 2.08 | 6.09 | 0.29 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 50**  NI 15522  NF 15510  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  10.6600  5.0184  20.4909  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1B | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1C | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1D | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1E | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1F | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1G | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1H | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1I | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1J | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1K | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1L | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1M | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1N | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1O | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 1P | 0 | 342 | 11940 | -259 | 15 | -274 | -17999 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.86 | 0.21 | 1.82 | 6.41 | 0.01 | 11.2 |
| 2 | 0 | 613 | 17480 | -372 | 3 | -389 | -25198 | 3.08 | 6.16 | 7.70 | 13.85 | 2 | 0.96 | 0.30 | 2.64 | 9.38 | 0.00 | 10.7 |

apost= --  aant= 3.08 ainf= 4.62 asup= 10.78 staffe= 2 d  8 / 10.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1B | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1C | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1D | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1E | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1F | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1G | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1H | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1I | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1J | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1K | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1L | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1M | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1N | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1O | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 1P | 33 | 342 | 11336 | -259 | 15 | -189 | -15985 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.89 | 0.20 | 1.73 | 6.08 | 0.01 | 11.2 |
| 2 | 33 | 613 | 16576 | -372 | 3 | -268 | -22255 | 3.08 | 6.16 | 6.16 | 12.32 | 2 | 0.95 | 0.29 | 2.51 | 8.89 | 0.00 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1B | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1C | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1D | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1E | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1F | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1G | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1H | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1I | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1J | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1K | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1L | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1M | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1N | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1O | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 1P | 65 | 342 | 10733 | -259 | 15 | -105 | -12377 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.19 | 1.64 | 5.76 | 0.01 | 11.2 |
| 2 | 65 | 613 | 15673 | -372 | 3 | -146 | -16986 | 3.08 | 6.16 | 4.62 | 9.24 | 2 | 0.95 | 0.27 | 2.37 | 8.41 | 0.00 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1B | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1C | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1D | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1E | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1F | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1G | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1H | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1I | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1J | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1K | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1L | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1N | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1O | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 1P | 98 | 342 | 10129 | -259 | 15 | -20 | -8967 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.55 | 5.43 | 0.01 | 18.4 |
| 2 | 98 | 613 | 14769 | -372 | 3 | -25 | -12012 | 3.08 | 6.16 | 3.08 | 7.70 | 2 | 0.81 | 0.26 | 2.24 | 7.92 | 0.00 | 12.7 |

apost= -- aant= 3.08 ainf= -- asup= 4.62 staffe= 2 d 8 / 12.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1B | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1C | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1D | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1E | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1F | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1G | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1H | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1I | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1J | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1K | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1L | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1M | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1N | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1O | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 1P | 131 | 342 | 9526 | -259 | 15 | 65 | -5754 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.95 | 0.17 | 1.46 | 5.11 | 0.01 | 19.1 |
| 2 | 131 | 613 | 13866 | -372 | 3 | 97 | -7333 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.82 | 0.24 | 2.10 | 7.44 | 0.00 | 13.5 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 13.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1B | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1C | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1D | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1E | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1F | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1G | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1H | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1I | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1J | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1K | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1L | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1M | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1N | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1O | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 1P | 163 | 342 | 8922 | -259 | 15 | 149 | -2739 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.46 | 0.16 | 1.36 | 4.79 | 0.01 | 19.1 |
| 2 | 163 | 613 | 12962 | -372 | 3 | 218 | -2950 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.51 | 0.22 | 1.96 | 6.95 | 0.00 | 14.4 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1B | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1C | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1D | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1E | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1F | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1G | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1H | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1I | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1J | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1K | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1L | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1M | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1N | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1O | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 1P | 196 | 342 | 8318 | -259 | 15 | 234 | 79 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.27 | 4.46 | 0.01 | 19.1 |
| 2 | 196 | 613 | 12058 | -372 | 3 | 339 | 1139 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.21 | 0.21 | 1.83 | 6.47 | 0.00 | 15.5 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 15.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1B | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1C | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1D | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1E | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1F | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1G | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1H | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1I | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1J | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1K | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1L | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1M | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1N | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1O | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 1P | 229 | 342 | 7715 | -259 | 15 | 319 | 2700 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.45 | 0.13 | 1.18 | 4.14 | 0.01 | 19.1 |
| 2 | 229 | 613 | 11155 | -372 | 3 | 461 | 4932 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.19 | 1.69 | 5.98 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1B | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1C | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1D | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1E | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1F | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1H | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1I | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1J | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1K | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1L | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1M | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1N | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1O | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 1P | 261 | 342 | 7111 | -259 | 15 | 404 | 5123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.12 | 1.09 | 3.82 | 0.01 | 19.1 |
| 2 | 261 | 613 | 10251 | -372 | 3 | 582 | 8430 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.18 | 1.55 | 5.50 | 0.00 | 18.3 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 18.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1O | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | 342 | 6508 | -259 | 15 | 488 | 7349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.11 | 1.00 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | 613 | 9348 | -372 | 3 | 704 | 11633 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.97 | 0.16 | 1.29 | 5.02 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1O | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | 342 | 5904 | -259 | 15 | 573 | 9377 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.10 | 0.83 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 613 | 8444 | -372 | 3 | 825 | 14540 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.98 | 0.15 | 1.08 | 4.53 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 49**  NI 15510  NF 14913  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  11.5700  5.4468  21.8293  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | 397 | -1509 | 631 | -147 | 1204 | 9366 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | 704 | -2837 | 893 | -212 | 1699 | 14530 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.98 | 0.07 | 0.60 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1D | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1L | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1P | 36 | 397 | -2207 | 631 | -147 | 980 | 8706 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | 704 | -3883 | 893 | -212 | 1382 | 13337 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.90 | 0.09 | 0.73 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | 397 | -2905 | 631 | -147 | 756 | 7799 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.60 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | 704 | -4930 | 893 | -212 | 1065 | 11772 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 0.91 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1P | 107 | 397 | -3602 | 631 | -147 | 532 | 6643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | 704 | -5976 | 893 | -212 | 747 | 9836 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.12 | 1.05 | 3.21 | 0.19 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | 397 | -4300 | 631 | -147 | 308 | 5240 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | 704 | -7022 | 893 | -212 | 430 | 7528 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.14 | 1.29 | 3.77 | 0.19 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1J | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1N | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | 397 | -4998 | 631 | -147 | 84 | 3590 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.60 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | 704 | -8069 | 893 | -212 | 113 | 4849 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.82 | 0.16 | 1.45 | 4.33 | 0.19 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1C | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1D | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1E | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1F | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1G | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1H | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1I | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1J | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1K | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1L | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1M | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1N | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1O | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 1P | 213 | 397 | -5696 | 631 | -147 | -141 | 1691 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.11 | 1.02 | 3.06 | 0.13 | 19.1 |
| 2 | 213 | 704 | -9115 | 893 | -212 | -204 | 1798 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.18 | 1.61 | 4.89 | 0.19 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1B | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1C | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1D | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1E | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1F | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1G | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1H | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1I | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1J | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1K | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1L | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1M | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1N | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1O | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 1P | 249 | 397 | -6394 | 631 | -147 | -365 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.11 | 0.12 | 1.13 | 3.43 | 0.13 | 19.1 |
| 2 | 249 | 704 | -10161 | 893 | -212 | -521 | -1624 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.20 | 1.77 | 5.45 | 0.19 | 17.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 17.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1B | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1C | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1D | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1E | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1F | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1G | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1H | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1I | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1J | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1K | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1L | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1M | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1N | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1O | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 1P | 284 | 397 | -7091 | 631 | -147 | -589 | -2849 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.48 | 0.14 | 1.23 | 3.80 | 0.13 | 19.1 |
| 2 | 284 | 704 | -11207 | 893 | -212 | -839 | -5418 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.21 | 1.93 | 6.01 | 0.19 | 15.7 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 15.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1B | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1C | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1D | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1E | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1F | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1G | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1H | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1I | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1J | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1K | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1L | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1M | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1N | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1O | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 1P | 320 | 397 | -7789 | 631 | -147 | -813 | -5491 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.15 | 1.34 | 4.18 | 0.13 | 11.2 |
| 2 | 320 | 704 | -12254 | 893 | -212 | -1156 | -9583 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.23 | 2.09 | 6.57 | 0.19 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1B | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1C | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1D | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1E | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1F | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1G | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1H | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1I | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1J | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1K | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1L | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1M | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1N | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 1O | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 355 | 397 | -8487 | 631 | -147 | -1037 | -8380 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.93 | 0.16 | 1.44 | 4.55 | 0.13 | 11.2 |
| 2 | 355 | 704 | -13300 | 893 | -212 | -1473 | -14120 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.25 | 2.24 | 7.14 | 0.19 | 11.2 |

apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 54** NI 15520 NF 15516 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 11.5620 5.0184 21.3929 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1B | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1C | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1D | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1E | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1F | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1G | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1H | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1I | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1J | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1K | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1L | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1M | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1N | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1O | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 1P | 0 | 1632 | 11280 | -124 | -30 | -119 | -16178 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.92 | 0.20 | 1.74 | 6.05 | 0.03 | 11.2 |
| 2 | 0 | 2398 | 16620 | -178 | -15 | -166 | -22977 | 3.08 | 6.16 | 6.16 | 12.32 | 2 | 0.99 | 0.29 | 2.53 | 8.92 | 0.01 | 11.2 |

apost= -- aant= 3.08 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1B | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1C | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1D | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1E | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1F | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1G | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1H | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1I | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1J | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1K | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1L | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1M | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1N | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1O | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 1P | 33 | 1632 | 10646 | -124 | -30 | -78 | -14289 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.97 | 0.19 | 1.64 | 5.71 | 0.03 | 11.2 |
| 2 | 33 | 2398 | 15678 | -178 | -15 | -108 | -20193 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 1.00 | 0.27 | 2.39 | 8.41 | 0.01 | 11.2 |

apost= -- aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1B | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1C | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1D | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1E | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1F | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1G | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1H | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1I | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1J | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1K | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1L | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1M | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1N | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1O | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 1P | 65 | 1632 | 10012 | -124 | -30 | -38 | -10914 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.93 | 0.18 | 1.55 | 5.37 | 0.03 | 11.2 |
| 2 | 65 | 2398 | 14736 | -178 | -15 | -49 | -15224 | 3.08 | 6.16 | 4.62 | 9.24 | 2 | 0.88 | 0.26 | 2.24 | 7.91 | 0.01 | 11.2 |

apost= -- aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1B | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1C | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1D | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1E | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1F | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1G | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1H | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1I | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1J | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1K | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1L | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1M | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1N | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1O | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |
| 1P | 98 | 1632 | 9378 | -124 | -30 | 3 | -7747 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.17 | 1.45 | 5.03 | 0.03 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 98 | 2398 | 13794 | -178 | -15 | 9 | -10563 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.24 | 2.10 | 7.40 | 0.01 | 13.5 |

apost= -- aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 13.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1B | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1C | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1D | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1E | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1F | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1G | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1H | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1I | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1J | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1K | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1L | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1M | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1N | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1O | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 1P | 131 | 1632 | 8744 | -124 | -30 | 43 | -4787 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.15 | 1.35 | 4.69 | 0.03 | 19.1 |
| 2 | 131 | 2398 | 12852 | -178 | -15 | 67 | -6209 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.22 | 1.96 | 6.90 | 0.01 | 14.5 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 14.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1B | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1C | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1D | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1E | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1F | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1G | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1H | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1I | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1J | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1K | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1L | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1M | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1N | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1O | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 1P | 163 | 1632 | 8110 | -124 | -30 | 84 | -2033 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.14 | 1.26 | 4.35 | 0.03 | 19.1 |
| 2 | 163 | 2398 | 11910 | -178 | -15 | 125 | -2163 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.21 | 1.82 | 6.39 | 0.01 | 15.7 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1B | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1C | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1D | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1E | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1F | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1G | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1H | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1I | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1J | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1K | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1L | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1M | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1N | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1O | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 1P | 196 | 1632 | 7477 | -124 | -30 | 124 | 513 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.13 | 1.16 | 4.01 | 0.03 | 19.1 |
| 2 | 196 | 2398 | 10968 | -178 | -15 | 183 | 1575 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.19 | 1.67 | 5.88 | 0.01 | 17.0 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 17.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1B | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1C | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1D | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1E | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1F | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1G | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1H | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1I | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1J | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1K | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1L | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1M | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1N | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1O | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 1P | 229 | 1632 | 6843 | -124 | -30 | 165 | 2852 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.53 | 0.12 | 1.07 | 3.67 | 0.03 | 19.1 |
| 2 | 229 | 2398 | 10026 | -178 | -15 | 241 | 5005 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.17 | 1.53 | 5.38 | 0.01 | 18.6 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 18.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1B | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1C | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1D | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1E | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1F | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1G | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1H | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1I | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1J | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1L | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1M | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1N | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1O | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1P | 261 | 1632 | 6209 | -124 | -30 | 205 | 4984 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 2 | 261 | 2398 | 9084 | -178 | -15 | 300 | 8128 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.16 | 1.39 | 4.87 | 0.01 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1O | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | 1632 | 5575 | -124 | -30 | 246 | 6909 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.80 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | 2398 | 8142 | -178 | -15 | 358 | 10943 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.14 | 1.13 | 4.37 | 0.01 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | 1632 | 4941 | -124 | -30 | 286 | 8627 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 2398 | 7200 | -178 | -15 | 416 | 13450 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.93 | 0.13 | 0.93 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 53** NI 15516 NF 14916 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 12.5490 5.4468 22.8083 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | 2006 | -1083 | 316 | 207 | 716 | 8626 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 1.00 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | 2945 | -2151 | 453 | 322 | 1021 | 13450 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1D | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1H | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1P | 36 | 2006 | -1816 | 316 | 207 | 603 | 8111 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.05 | 0.50 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | 2945 | -3243 | 453 | 322 | 860 | 12493 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.88 | 0.09 | 0.77 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | 2006 | -2548 | 316 | 207 | 491 | 7337 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.06 | 0.61 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | 2945 | -4335 | 453 | 322 | 699 | 11148 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.11 | 0.95 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1P | 107 | 2006 | -3281 | 316 | 207 | 379 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | 2945 | -5427 | 453 | 322 | 539 | 9416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.84 | 0.12 | 1.10 | 2.91 | 0.28 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | 2006 | -4013 | 316 | 207 | 267 | 5007 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.09 | 0.84 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | 2945 | -6519 | 453 | 322 | 378 | 7296 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.14 | 1.34 | 3.50 | 0.28 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1J | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1N | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | 2006 | -4746 | 316 | 207 | 155 | 3452 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.64 | 0.10 | 0.95 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | 2945 | -7610 | 453 | 322 | 217 | 4789 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.90 | 0.16 | 1.51 | 4.08 | 0.28 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1B | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1C | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1D | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1E | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1G | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1H | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1I | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1J | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1K | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1L | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1M | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1N | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1O | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 1P | 213 | 2006 | -5478 | 316 | 207 | 43 | 1637 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.06 | 2.94 | 0.18 | 19.1 |
| 2 | 213 | 2945 | -8702 | 453 | 322 | 56 | 1894 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.18 | 1.67 | 4.67 | 0.28 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1B | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1C | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1D | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1E | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1F | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1G | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1H | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1I | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1J | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1K | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1L | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1M | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1N | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1O | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 1P | 249 | 2006 | -6211 | 316 | 207 | -70 | -438 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.15 | 0.13 | 1.17 | 3.33 | 0.18 | 19.1 |
| 2 | 249 | 2945 | -9794 | 453 | 322 | -104 | -1388 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.35 | 0.20 | 1.83 | 5.25 | 0.28 | 17.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 17.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1B | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1C | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1D | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1E | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1F | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1G | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1H | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1I | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1J | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1K | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1L | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1M | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1N | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1O | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 1P | 284 | 2006 | -6943 | 316 | 207 | -182 | -2773 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.14 | 1.28 | 3.73 | 0.18 | 19.1 |
| 2 | 284 | 2945 | -10886 | 453 | 322 | -265 | -5058 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.94 | 0.22 | 2.00 | 5.84 | 0.28 | 15.7 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 15.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1B | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1C | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1D | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1E | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1F | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1G | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1H | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1I | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1J | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1K | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1L | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1M | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1N | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1O | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 1P | 320 | 2006 | -7675 | 316 | 207 | -294 | -5369 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.96 | 0.15 | 1.39 | 4.12 | 0.18 | 11.2 |
| 2 | 320 | 2945 | -11978 | 453 | 322 | -426 | -9115 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.24 | 2.16 | 6.43 | 0.28 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1B | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1C | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1D | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1E | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1F | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1G | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1H | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1I | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1J | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1K | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1L | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1M | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1N | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1O | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 1P | 355 | 2006 | -8408 | 316 | 207 | -406 | -8224 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.95 | 0.16 | 1.50 | 4.51 | 0.18 | 11.2 |
| 2 | 355 | 2945 | -13070 | 453 | 322 | -587 | -13560 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.95 | 0.26 | 2.33 | 7.01 | 0.28 | 11.2 |

apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 56** NI 15525 NF 15519 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.6420 5.0184 16.4729 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1B | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1C | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1D | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1E | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1F | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1G | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1H | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1I | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1J | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1K | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1L | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1M | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1N | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1O | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 1P | 0 | 1888 | 8304 | -9 | -323 | 83 | -11814 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.61 | 4.46 | 0.28 | 11.2 |
| 2 | 0 | 2939 | 12560 | -5 | -538 | 136 | -17126 | 6.16 | 3.08 | 4.62 | 9.24 | 2 | 0.99 | 0.27 | 2.49 | 6.74 | 0.48 | 11.2 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1B | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1C | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1D | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1E | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1F | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1G | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1H | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1I | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1J | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1K | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1L | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1M | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1N | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1O | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 1P | 33 | 1888 | 7831 | -9 | -323 | 86 | -10424 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.90 | 0.17 | 1.54 | 4.20 | 0.28 | 11.2 |
| 2 | 33 | 2939 | 11827 | -5 | -538 | 138 | -15026 | 6.16 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.25 | 2.38 | 6.35 | 0.48 | 11.2 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1B | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1C | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1D | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1E | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1F | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1G | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1H | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1I | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1J | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1K | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1L | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1M | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1N | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1O | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 1P | 65 | 1888 | 7359 | -9 | -323 | 89 | -7942 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.16 | 1.47 | 3.95 | 0.28 | 11.2 |
| 2 | 65 | 2939 | 11094 | -5 | -538 | 139 | -11280 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.24 | 2.27 | 5.95 | 0.48 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1B | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1C | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1D | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1E | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1F | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1G | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1H | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1I | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1J | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1K | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1L | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1M | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1N | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1O | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 1P | 98 | 1888 | 6886 | -9 | -323 | 92 | -5615 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.99 | 0.15 | 1.40 | 3.69 | 0.28 | 19.1 |
| 2 | 98 | 2939 | 10362 | -5 | -538 | 141 | -7775 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.93 | 0.23 | 2.16 | 5.56 | 0.48 | 15.4 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1B | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1C | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1D | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1E | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1F | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1G | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1H | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1I | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1J | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1K | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1L | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1M | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1N | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1O | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 1P | 131 | 1888 | 6413 | -9 | -323 | 95 | -3442 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.14 | 1.32 | 3.44 | 0.28 | 19.1 |
| 2 | 131 | 2939 | 9629 | -5 | -538 | 143 | -4509 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.85 | 0.22 | 2.05 | 5.17 | 0.48 | 16.4 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1B | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1C | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1D | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1E | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1F | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1G | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1H | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1I | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1J | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1K | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1L | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1M | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1N | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1O | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 1P | 163 | 1888 | 5941 | -9 | -323 | 98 | -1424 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.25 | 3.19 | 0.28 | 19.1 |
| 2 | 163 | 2939 | 8896 | -5 | -538 | 144 | -1482 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.20 | 1.94 | 4.77 | 0.48 | 17.6 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1B | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1C | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1D | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1E | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1F | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1G | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1H | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1I | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1J | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1K | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1L | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1M | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1N | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1O | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 1P | 196 | 1888 | 5468 | -9 | -323 | 101 | 439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.12 | 1.18 | 2.93 | 0.28 | 19.1 |
| 2 | 196 | 2939 | 8163 | -5 | -538 | 146 | 1305 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.19 | 1.83 | 4.38 | 0.48 | 18.9 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 18.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1B | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1C | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1D | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1E | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1F | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1G | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1H | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1I | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1J | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1K | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1L | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1M | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1N | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1O | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 1P | 229 | 1888 | 4995 | -9 | -323 | 104 | 2149 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.43 | 0.12 | 1.11 | 2.68 | 0.28 | 19.1 |
| 2 | 229 | 2939 | 7430 | -5 | -538 | 147 | 3853 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.75 | 0.18 | 1.72 | 3.99 | 0.48 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1B | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1C | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1D | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1E | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1F | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1G | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1H | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1I | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1J | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1K | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1L | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1M | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1N | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 1P | 261 | 1888 | 4522 | -9 | -323 | 106 | 3703 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.11 | 1.04 | 2.43 | 0.28 | 19.1 |
| 2 | 261 | 2939 | 6698 | -5 | -538 | 149 | 6162 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.75 | 0.17 | 1.60 | 3.59 | 0.48 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1B | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1C | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1D | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1E | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1F | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1G | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1H | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1I | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1J | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1K | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1L | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1M | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1N | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1O | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1P | 294 | 1888 | 4050 | -9 | -323 | 109 | 5103 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.10 | 0.97 | 0.00 | 0.00 | 19.1 |
| 2 | 294 | 2939 | 5965 | -5 | -538 | 151 | 8230 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.15 | 1.49 | 3.20 | 0.48 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1O | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | 1888 | 3577 | -9 | -323 | 112 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.74 | 0.09 | 0.90 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 2939 | 5232 | -5 | -538 | 152 | 10060 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.89 | 0.14 | 1.31 | 2.81 | 0.48 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 55** NI 15519 NF 14915 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 7.2090 5.4468 17.4683 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | 1711 | -695 | 515 | 200 | 882 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.73 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | 2684 | -1368 | 735 | 358 | 1259 | 10010 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1D | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1H | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1L | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 36 | 1711 | -1238 | 515 | 200 | 700 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.70 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | 2684 | -2213 | 735 | 358 | 998 | 9374 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | 1711 | -1781 | 515 | 200 | 517 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | 2684 | -3058 | 735 | 358 | 737 | 8439 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.99 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1P | 107 | 1711 | -2324 | 515 | 200 | 334 | 4687 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.83 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | 2684 | -3903 | 735 | 358 | 476 | 7203 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | 1711 | -2867 | 515 | 200 | 151 | 3766 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.68 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | 2684 | -4748 | 735 | 358 | 215 | 5667 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.69 | 0.12 | 1.11 | 2.55 | 0.32 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1J | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1N | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | 1711 | -3410 | 515 | 200 | -31 | 2651 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | 2684 | -5593 | 735 | 358 | -46 | 3832 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.13 | 1.24 | 3.00 | 0.32 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1B | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1C | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1D | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1E | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1F | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1G | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1H | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1I | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1K | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1L | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1M | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1N | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1O | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 1P | 213 | 1711 | -3953 | 515 | 200 | -214 | 1344 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.09 | 0.82 | 0.00 | 0.00 | 19.1 |
| 2 | 213 | 2684 | -6438 | 735 | 358 | -308 | 1696 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.39 | 0.14 | 1.37 | 3.45 | 0.32 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1B | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1C | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1D | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1E | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1F | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1G | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1H | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1I | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1J | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1K | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1L | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1M | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1N | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1O | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 1P | 249 | 1711 | -4495 | 515 | 200 | -397 | -155 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.10 | 0.90 | 0.00 | 0.00 | 19.1 |
| 2 | 249 | 2684 | -7283 | 735 | 358 | -569 | -740 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.16 | 1.50 | 3.91 | 0.32 | 19.1 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1B | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1C | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1D | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1E | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1F | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1G | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1H | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1I | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1J | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1K | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1L | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1M | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1N | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1O | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1P | 284 | 1711 | -5038 | 515 | 200 | -580 | -1848 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.37 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 2 | 284 | 2684 | -8128 | 735 | 358 | -830 | -3475 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.17 | 1.62 | 4.36 | 0.32 | 19.1 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1B | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1C | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1D | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1E | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1F | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1G | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1H | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1I | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1J | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1K | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1L | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1M | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1N | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1O | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 1P | 320 | 1711 | -5581 | 515 | 200 | -763 | -3733 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.06 | 2.99 | 0.18 | 11.2 |
| 2 | 320 | 2684 | -8973 | 735 | 358 | -1091 | -6511 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.78 | 0.19 | 1.75 | 4.81 | 0.32 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1B | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1C | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1D | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1E | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1F | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1G | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1H | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1I | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1J | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1K | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1L | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1M | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1N | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1O | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 1P | 355 | 1711 | -6124 | 515 | 200 | -945 | -5811 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.68 | 0.12 | 1.15 | 3.29 | 0.18 | 11.2 |
| 2 | 355 | 2684 | -9818 | 735 | 358 | -1352 | -9847 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.87 | 0.20 | 1.88 | 5.27 | 0.32 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 59**  NI 15085  NF 15507  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.

qy medio: 7.0000 6.2300 5.4468 18.6768 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1B | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1C | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1D | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1E | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1F | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1G | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1H | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1I | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1J | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1K | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1L | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1M | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1N | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1O | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 1P | 0 | 113 | 9227 | -391 | 717 | -779 | -10010 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.15 | 1.45 | 3.84 | 0.41 | 11.2 |
| 2 | 0 | 227 | 14570 | -565 | 1102 | -1145 | -16750 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.23 | 2.27 | 6.07 | 0.64 | 11.2 |
| apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1B | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1C | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1D | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1E | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1F | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1G | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1H | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1I | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1J | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1K | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1L | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1M | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1N | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1O | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 1P | 35 | 113 | 8645 | -391 | 717 | -641 | -6855 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.86 | 0.14 | 1.39 | 3.60 | 0.41 | 11.2 |
| 2 | 35 | 227 | 13674 | -565 | 1102 | -945 | -11766 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 1.00 | 0.22 | 2.17 | 5.69 | 0.64 | 11.2 |
| apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1B | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1C | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1D | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1E | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1F | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1G | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1H | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1I | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1J | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1K | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1L | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1M | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1N | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1O | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 1P | 71 | 113 | 8062 | -391 | 717 | -503 | -3907 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.49 | 0.13 | 1.32 | 3.36 | 0.41 | 11.2 |
| 2 | 71 | 227 | 12778 | -565 | 1102 | -746 | -7098 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.21 | 2.07 | 5.32 | 0.64 | 11.2 |
| apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1B | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1C | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1D | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1E | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1F | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1G | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1H | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1I | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1J | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1K | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1L | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1M | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1N | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1O | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 1P | 106 | 113 | 7480 | -391 | 717 | -365 | -1163 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.15 | 0.12 | 1.26 | 3.11 | 0.41 | 16.8 |
| 2 | 106 | 227 | 11881 | -565 | 1102 | -546 | -2746 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.35 | 0.20 | 1.97 | 4.95 | 0.64 | 16.2 |
| apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 16.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1B | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1C | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1D | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1F | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1G | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1H | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1I | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1J | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1K | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1L | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1M | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1N | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1O | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 1P | 141 | 113 | 6897 | -391 | 717 | -227 | 1374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.18 | 0.12 | 1.19 | 2.87 | 0.41 | 16.8 |
| 2 | 141 | 227 | 10985 | -565 | 1102 | -347 | 1289 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.17 | 0.19 | 1.88 | 4.57 | 0.64 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1B | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1C | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1D | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1E | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1F | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1G | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1H | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1I | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1J | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1K | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1L | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1M | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1N | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1O | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 1P | 177 | 113 | 6314 | -391 | 717 | -89 | 3706 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.47 | 0.11 | 1.13 | 2.63 | 0.41 | 16.8 |
| 2 | 177 | 227 | 10089 | -565 | 1102 | -147 | 5008 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.64 | 0.17 | 1.78 | 4.20 | 0.64 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1B | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1C | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1D | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1E | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1F | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1G | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1H | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1I | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1J | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1K | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1L | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1M | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1N | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1O | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 1P | 212 | 113 | 5732 | -391 | 717 | 50 | 5832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.74 | 0.10 | 1.07 | 2.39 | 0.41 | 16.8 |
| 2 | 212 | 227 | 9193 | -565 | 1102 | 52 | 8411 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.71 | 0.16 | 1.68 | 3.83 | 0.64 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1B | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1C | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1D | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1E | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1F | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1G | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1H | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1I | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1J | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1K | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1L | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1M | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1N | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1O | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 1P | 247 | 113 | 5150 | -391 | 717 | 188 | 7753 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.10 | 1.00 | 2.14 | 0.41 | 16.8 |
| 2 | 247 | 227 | 8297 | -565 | 1102 | 252 | 11498 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.97 | 0.15 | 1.58 | 3.45 | 0.64 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1B | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1C | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1D | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1E | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1F | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1G | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1H | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1I | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1J | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1K | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1L | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1M | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1N | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1O | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1P | 282 | 113 | 4567 | -391 | 717 | 326 | 9467 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.09 | 0.94 | 0.00 | 0.00 | 16.8 |
| 2 | 282 | 227 | 7400 | -565 | 1102 | 451 | 14268 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.91 | 0.14 | 1.48 | 3.08 | 0.64 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1B | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1C | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1D | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1E | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1F | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1G | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1H | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1I | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1J | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1K | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1L | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1M | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1N | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1O | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1P | 318 | 113 | 3984 | -391 | 717 | 464 | 10977 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.87 | 0.00 | 0.00 | 16.8 |
| 2 | 318 | 227 | 6504 | -565 | 1102 | 651 | 16722 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.34 | 2.71 | 0.64 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1B | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1C | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1D | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1E | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1F | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1G | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1H | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1I | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1J | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1K | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1L | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1M | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1N | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1O | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1P | 353 | 113 | 3402 | -391 | 717 | 602 | 12280 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.78 | 0.08 | 0.81 | 0.00 | 0.00 | 16.8 |
| 2 | 353 | 227 | 5608 | -565 | 1102 | 851 | 18860 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.12 | 1.24 | 2.34 | 0.64 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 58**  NI 15507  NF 15506  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  5.7400  5.0184  17.7584  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 38 | 1247 | 136 | -110 | 447 | 12600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 118 | 2157 | 190 | -141 | 626 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | 38 | 734 | 136 | -110 | 403 | 12923 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | 118 | 1373 | 190 | -141 | 564 | 19915 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | 38 | 221 | 136 | -110 | 359 | 13078 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | 118 | 588 | 190 | -141 | 502 | 20235 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | 38 | -292 | 136 | -110 | 314 | 13067 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | 118 | -196 | 190 | -141 | 440 | 20300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1B | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1C | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1D | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1E | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1F | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1G | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1H | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1I | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1J | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1K | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1L | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1M | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1N | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1O | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1P | 130 | 38 | -805 | 136 | -110 | 270 | 12888 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 2 | 130 | 118 | -980 | 190 | -141 | 378 | 20109 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 38 | -1317 | 136 | -110 | 226 | 12543 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | 118 | -1765 | 190 | -141 | 316 | 19663 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1B | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1C | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1D | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1E | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1F | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1G | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1H | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1I | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1J | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1K | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1L | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1M | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1O | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1P | 195 | 38 | -1830 | 136 | -110 | 182 | 12031 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 2 | 195 | 118 | -2549 | 190 | -141 | 255 | 18961 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | 38 | -2343 | 136 | -110 | 137 | 11351 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | 118 | -3333 | 190 | -141 | 193 | 18004 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 260 | 38 | -2856 | 136 | -110 | 93 | 10505 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 2 | 260 | 118 | -4117 | 190 | -141 | 131 | 16791 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | 38 | -3369 | 136 | -110 | 49 | 9491 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | 118 | -4902 | 190 | -141 | 69 | 15323 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | 38 | -3882 | 136 | -110 | 5 | 8311 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.70 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | 118 | -5686 | 190 | -141 | 7 | 13600 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |

apost= -- aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 57** NI 15506 NF 15524 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 5.7400 5.0184 17.7584 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1B | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1C | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1D | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1E | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1F | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1G | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1H | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1I | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1J | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1K | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1L | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1M | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1N | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1O | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 1P | 0 | 85 | -6579 | 86 | -1911 | 92 | 8147 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.69 | 0.18 | 1.88 | 2.74 | 1.10 | 16.8 |
| 2 | 0 | 180 | -9987 | 106 | -2912 | 120 | 13370 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.85 | 0.27 | 2.86 | 4.16 | 1.68 | 13.4 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1B | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1C | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1D | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1E | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1F | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1G | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1H | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1I | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1J | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1K | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1L | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1M | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1N | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1O | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 1P | 33 | 85 | -7095 | 86 | -1911 | 63 | 5904 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.74 | 0.18 | 1.94 | 2.95 | 1.10 | 16.8 |
| 2 | 33 | 180 | -10777 | 106 | -2912 | 85 | 9966 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.84 | 0.28 | 2.95 | 4.49 | 1.68 | 12.8 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1B | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1C | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1D | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1E | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1F | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1G | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1H | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1I | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1J | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1K | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1L | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1M | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1N | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1O | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 1P | 66 | 85 | -7611 | 86 | -1911 | 35 | 3493 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.19 | 1.99 | 3.17 | 1.10 | 16.8 |
| 2 | 66 | 180 | -11568 | 106 | -2912 | 50 | 6302 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.80 | 0.29 | 3.04 | 4.82 | 1.68 | 12.3 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 12.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1B | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1C | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1D | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1E | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1F | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1G | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1H | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1I | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1J | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1K | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1L | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1M | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1N | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1O | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 1P | 98 | 85 | -8127 | 86 | -1911 | 7 | 911 | 4.62 | 4.62 | 9.24 | 4.62 | 2 | 0.12 | 0.19 | 2.05 | 3.38 | 1.10 | 16.8 |
| 2 | 98 | 180 | -12358 | 106 | -2912 | 16 | 2380 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.31 | 0.29 | 3.12 | 5.15 | 1.68 | 11.8 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1B | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1C | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1D | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1E | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1F | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1G | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1H | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1J | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1K | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1L | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1M | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1N | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1O | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 1P | 131 | 85 | -8643 | 86 | -1911 | -21 | -1839 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.20 | 2.11 | 3.60 | 1.10 | 16.8 |
| 2 | 131 | 180 | -13148 | 106 | -2912 | -19 | -1802 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.23 | 0.30 | 3.21 | 5.47 | 1.68 | 11.4 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1B | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1C | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1D | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1E | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1F | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1G | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1H | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1I | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1J | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1K | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1L | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1M | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1N | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1O | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 1P | 164 | 85 | -9159 | 86 | -1911 | -49 | -4759 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.60 | 0.21 | 2.16 | 3.81 | 1.10 | 16.7 |
| 2 | 164 | 180 | -13938 | 106 | -2912 | -54 | -6242 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.31 | 3.30 | 5.80 | 1.68 | 11.0 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1B | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1C | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1D | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1E | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1F | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1G | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1H | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1I | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1J | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1K | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1L | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1M | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1N | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1O | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 1P | 197 | 85 | -9676 | 86 | -1911 | -78 | -7849 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.21 | 2.22 | 4.03 | 1.10 | 16.1 |
| 2 | 197 | 180 | -14729 | 106 | -2912 | -88 | -10942 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.32 | 3.38 | 6.13 | 1.68 | 10.6 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1B | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1C | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1D | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1E | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1F | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1G | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1H | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1I | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1J | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1K | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1L | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1M | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1N | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1O | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 1P | 230 | 85 | -10192 | 86 | -1911 | -106 | -11108 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.94 | 0.22 | 2.28 | 4.24 | 1.10 | 15.6 |
| 2 | 230 | 180 | -15519 | 106 | -2912 | -123 | -15900 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.33 | 3.47 | 6.46 | 1.68 | 10.2 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1B | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1C | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1D | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1E | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1F | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1G | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1H | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1I | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1J | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1K | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1L | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1M | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1N | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1O | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 1P | 262 | 85 | -10708 | 86 | -1911 | -134 | -14536 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.22 | 2.34 | 4.46 | 1.10 | 11.2 |
| 2 | 262 | 180 | -16309 | 106 | -2912 | -158 | -21118 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.34 | 3.56 | 6.79 | 1.68 | 9.9 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 9.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1B | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1D | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1E | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1F | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1G | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1H | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1I | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1J | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1K | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1L | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1M | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1N | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1O | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 1P | 295 | 85 | -11224 | 86 | -1911 | -162 | -18133 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.92 | 0.23 | 2.39 | 4.67 | 1.10 | 11.2 |
| 2 | 295 | 180 | -17100 | 106 | -2912 | -193 | -26594 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.35 | 3.64 | 7.12 | 1.68 | 9.6 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1B | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1C | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1D | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1E | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1F | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1G | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1H | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1I | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1J | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1K | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1L | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1M | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1N | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1O | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 1P | 328 | 85 | -11740 | 86 | -1911 | -190 | -20139 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.86 | 0.24 | 2.45 | 4.89 | 1.10 | 11.2 |
| 2 | 328 | 180 | -17890 | 106 | -2912 | -227 | -29647 | 4.62 | 9.24 | 6.16 | 12.32 | 2 | 0.96 | 0.36 | 3.73 | 7.45 | 1.68 | 9.3 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 62**  NI 15084  NF 15528  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.5700  5.4468  24.0168  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1B | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1C | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1D | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1E | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1F | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1G | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1H | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1I | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1J | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1K | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1L | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1M | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1N | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1O | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 1P | 0 | 1096 | 15710 | -243 | 451 | -403 | -22290 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.96 | 0.21 | 2.00 | 6.54 | 0.26 | 11.2 |
| 2 | 0 | 1900 | 24040 | -355 | 660 | -599 | -35330 | 3.08 | 9.24 | 7.70 | 15.39 | 2 | 0.94 | 0.32 | 3.04 | 10.01 | 0.38 | 9.3 |

apost= --  aant= 6.16 ainf= 4.62 asup= 12.32 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1B | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1C | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1D | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1E | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1F | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1G | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1H | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1I | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1J | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1K | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1L | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1M | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1N | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1O | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 1P | 35 | 1096 | 14939 | -243 | 451 | -317 | -16880 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.88 | 0.20 | 1.92 | 6.22 | 0.26 | 11.2 |
| 2 | 35 | 1900 | 22899 | -355 | 660 | -473 | -27044 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.30 | 2.92 | 9.54 | 0.38 | 9.8 |

apost= --  aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 9.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1B | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1C | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1E | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1F | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1G | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1H | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1I | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1J | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1K | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1L | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1M | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1N | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1O | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 1P | 71 | 1096 | 14167 | -243 | 451 | -232 | -11742 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.19 | 1.83 | 5.90 | 0.26 | 11.2 |
| 2 | 71 | 1900 | 21758 | -355 | 660 | -348 | -19162 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.29 | 2.79 | 9.06 | 0.38 | 10.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1B | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1C | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1D | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1E | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1F | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1G | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1H | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1I | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1J | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1K | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1L | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1M | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1N | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1O | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 1P | 106 | 1096 | 13396 | -243 | 451 | -146 | -6876 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.18 | 1.75 | 5.58 | 0.26 | 16.5 |
| 2 | 106 | 1900 | 20617 | -355 | 660 | -222 | -11682 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.78 | 0.28 | 2.67 | 8.59 | 0.38 | 10.8 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 10.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1B | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1C | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1D | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1E | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1F | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1G | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1H | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1I | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1J | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1K | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1L | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1M | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1N | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1O | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 1P | 141 | 1096 | 12625 | -243 | 451 | -60 | -2283 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.33 | 0.17 | 1.66 | 5.26 | 0.26 | 16.8 |
| 2 | 141 | 1900 | 19476 | -355 | 660 | -97 | -4604 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.26 | 2.54 | 8.11 | 0.38 | 11.3 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 11.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1B | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1C | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1D | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1E | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1F | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1G | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1H | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1I | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1J | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1K | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1L | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1M | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1N | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1O | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 1P | 177 | 1096 | 11853 | -243 | 451 | 26 | 2038 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.30 | 0.16 | 1.58 | 4.94 | 0.26 | 16.8 |
| 2 | 177 | 1900 | 18335 | -355 | 660 | 29 | 2070 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.34 | 0.25 | 2.42 | 7.63 | 0.38 | 12.0 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 12.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1B | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1C | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1D | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1E | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1F | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1G | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1H | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1I | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1J | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1K | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1L | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1M | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1N | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1O | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 1P | 212 | 1096 | 11082 | -243 | 451 | 112 | 6087 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.15 | 1.49 | 4.61 | 0.26 | 16.8 |
| 2 | 212 | 1900 | 17194 | -355 | 660 | 154 | 8342 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.75 | 0.24 | 2.29 | 7.16 | 0.38 | 12.7 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 12.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1B | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1C | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1D | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1E | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1F | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1G | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1H | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1I | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1J | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1K | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1L | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1M | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1N | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1O | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 1P | 247 | 1096 | 10311 | -243 | 451 | 198 | 9864 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.14 | 1.41 | 4.29 | 0.26 | 16.8 |
| 2 | 247 | 1900 | 16053 | -355 | 660 | 280 | 14210 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.22 | 2.17 | 6.68 | 0.38 | 13.5 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 13.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1B | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1C | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1D | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1E | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1F | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1G | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1H | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1I | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1J | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1K | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1L | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1M | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1N | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1O | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 1P | 282 | 1096 | 9540 | -243 | 451 | 284 | 13368 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.14 | 1.32 | 3.97 | 0.26 | 16.8 |
| 2 | 282 | 1900 | 14912 | -355 | 660 | 405 | 19676 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.21 | 1.85 | 6.21 | 0.38 | 14.4 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1B | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1C | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1D | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1E | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1F | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1G | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1H | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1I | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1J | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1K | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1L | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1M | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1N | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1O | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 1P | 318 | 1096 | 8768 | -243 | 451 | 369 | 16600 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.13 | 1.18 | 3.65 | 0.26 | 16.8 |
| 2 | 318 | 1900 | 13771 | -355 | 660 | 531 | 24740 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.93 | 0.20 | 1.67 | 5.73 | 0.38 | 15.5 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 15.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1B | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1C | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1D | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1E | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1F | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1G | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1H | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1I | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1J | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1K | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1L | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1M | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1N | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1O | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 1P | 353 | 1096 | 7997 | -243 | 451 | 455 | 19560 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.12 | 1.05 | 3.33 | 0.26 | 16.8 |
| 2 | 353 | 1900 | 12630 | -355 | 660 | 656 | 29400 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.97 | 0.18 | 1.51 | 5.26 | 0.38 | 16.7 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.7 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 61** NI 15528 NF 15527 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 1077 | 2001 | 19 | -129 | 157 | 19310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 1848 | 3207 | 4 | -171 | 183 | 29010 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.95 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | 1077 | 1328 | 19 | -129 | 151 | 19852 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | 1848 | 2214 | 4 | -171 | 182 | 29892 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.98 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | 1077 | 655 | 19 | -129 | 145 | 20175 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | 1848 | 1222 | 4 | -171 | 180 | 30452 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.89 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | 1077 | -18 | 19 | -129 | 139 | 20279 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | 1848 | 229 | 4 | -171 | 179 | 30688 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 130 | 1077 | -691 | 19 | -129 | 132 | 20164 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 130 | 1848 | -763 | 4 | -171 | 178 | 30601 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 1077 | -1365 | 19 | -129 | 126 | 19829 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | 1848 | -1756 | 4 | -171 | 176 | 30190 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.99 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1B | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1C | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1D | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1E | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1F | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1G | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1H | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1I | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1J | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1K | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1L | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1M | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1N | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1O | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1P | 195 | 1077 | -2038 | 19 | -129 | 120 | 19276 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 2 | 195 | 1848 | -2749 | 4 | -171 | 175 | 29457 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.97 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | 1077 | -2711 | 19 | -129 | 114 | 18503 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.04 | 0.36 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | 1848 | -3741 | 4 | -171 | 174 | 28400 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.93 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1D | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1I | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 260 | 1077 | -3384 | 19 | -129 | 108 | 17511 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 260 | 1848 | -4734 | 4 | -171 | 172 | 27020 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.89 | 0.06 | 0.52 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | 1077 | -4057 | 19 | -129 | 101 | 16300 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | 1848 | -5726 | 4 | -171 | 171 | 25316 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.95 | 0.08 | 0.63 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | 1077 | -4730 | 19 | -129 | 95 | 14870 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | 1848 | -6719 | 4 | -171 | 170 | 23290 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.09 | 0.72 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 60** NI 15527 NF 15523 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1B | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1C | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1D | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1E | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1F | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1G | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1H | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1I | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1J | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1K | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1L | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1M | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1N | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1O | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 1P | 0 | 1008 | -10010 | 114 | -1403 | 139 | 14880 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.96 | 0.19 | 1.95 | 4.17 | 0.81 | 16.8 |
| 2 | 0 | 1729 | -14990 | 142 | -2043 | 174 | 23280 | 9.24 | 4.62 | 10.78 | 4.62 | 2 | 0.87 | 0.28 | 2.62 | 6.24 | 1.18 | 11.7 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= 1.54 staffe= 2 d 8 / 11.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1B | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1C | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1D | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1E | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1F | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1G | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1H | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1I | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1J | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1K | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1L | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1M | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1N | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1O | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 1P | 33 | 1008 | -10688 | 114 | -1403 | 102 | 11487 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.99 | 0.20 | 2.03 | 4.45 | 0.81 | 16.6 |
| 2 | 33 | 1729 | -15990 | 142 | -2043 | 128 | 18201 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.95 | 0.29 | 2.88 | 6.66 | 1.18 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1B | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1C | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1D | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1E | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1F | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1G | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1I | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1J | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1K | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1L | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1M | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1N | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1O | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 1P | 66 | 1008 | -11366 | 114 | -1403 | 64 | 7872 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.21 | 2.10 | 4.73 | 0.81 | 15.8 |
| 2 | 66 | 1729 | -16990 | 142 | -2043 | 81 | 12794 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.85 | 0.30 | 3.11 | 7.07 | 1.18 | 10.7 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 10.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1B | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1C | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1D | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1E | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1F | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1G | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1H | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1I | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1J | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1K | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1L | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1M | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1N | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1O | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 1P | 98 | 1008 | -12044 | 114 | -1403 | 27 | 4035 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.55 | 0.21 | 2.17 | 5.02 | 0.81 | 15.2 |
| 2 | 98 | 1729 | -17990 | 142 | -2043 | 35 | 7060 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.96 | 0.32 | 3.22 | 7.49 | 1.18 | 10.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 10.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1B | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1C | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1D | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1E | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1F | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1G | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1H | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1I | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1J | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1K | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1L | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1M | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1N | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1O | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 1P | 131 | 1008 | -12722 | 114 | -1403 | -10 | -25 | 4.62 | 9.24 | 3.08 | 9.24 | 1 | 0.04 | 0.22 | 2.25 | 5.30 | 0.81 | 14.5 |
| 2 | 131 | 1729 | -18990 | 142 | -2043 | -11 | 998 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.20 | 0.33 | 3.33 | 7.91 | 1.18 | 9.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 6.16 staffe= 2 d 8 / 9.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1B | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1C | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1D | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1E | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1F | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1G | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1H | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1I | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1J | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1K | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1L | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1M | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1N | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1O | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 1P | 164 | 1008 | -13400 | 114 | -1403 | -47 | -4307 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.58 | 0.23 | 2.32 | 5.58 | 0.81 | 14.0 |
| 2 | 164 | 1729 | -19990 | 142 | -2043 | -58 | -5393 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.75 | 0.34 | 3.44 | 8.32 | 1.18 | 9.4 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 9.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1B | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1C | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1D | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1E | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1F | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1G | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1H | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1I | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1J | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1K | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1L | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1M | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1N | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1O | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 1P | 197 | 1008 | -14078 | 114 | -1403 | -85 | -8811 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.77 | 0.24 | 2.40 | 5.86 | 0.81 | 13.4 |
| 2 | 197 | 1729 | -20990 | 142 | -2043 | -104 | -12110 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.80 | 0.35 | 3.55 | 8.74 | 1.18 | 9.1 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 9.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1C | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1D | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1E | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1F | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1G | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1H | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1I | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1J | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1K | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1L | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1M | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1N | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1O | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 1P | 230 | 1008 | -14756 | 114 | -1403 | -122 | -13537 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.88 | 0.25 | 2.47 | 6.14 | 0.81 | 12.9 |
| 2 | 230 | 1729 | -21990 | 142 | -2043 | -151 | -19156 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.36 | 3.66 | 9.16 | 1.18 | 8.7 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 8.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1B | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1C | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1D | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1E | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1F | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1G | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1H | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1I | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1J | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1K | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1L | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1M | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1N | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1O | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 1P | 262 | 1008 | -15434 | 114 | -1403 | -159 | -18486 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.25 | 2.55 | 6.43 | 0.81 | 11.2 |
| 2 | 262 | 1729 | -22990 | 142 | -2043 | -197 | -26530 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.99 | 0.37 | 3.77 | 9.57 | 1.18 | 8.4 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 8.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1B | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1C | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1D | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1E | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1F | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1G | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1H | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1I | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1J | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1K | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1L | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1M | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1N | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1O | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 1P | 295 | 1008 | -16112 | 114 | -1403 | -196 | -23657 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.88 | 0.26 | 2.62 | 6.71 | 0.81 | 11.2 |
| 2 | 295 | 1729 | -23990 | 142 | -2043 | -244 | -34231 | 4.62 | 9.24 | 7.70 | 15.39 | 2 | 0.91 | 0.39 | 3.88 | 9.99 | 1.18 | 8.1 |

apost= 1.54 aant= 6.16 ainf= 4.62 asup= 12.32 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1B | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1C | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1D | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1E | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1F | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1G | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1H | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1I | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1J | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1K | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1L | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1M | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1N | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1O | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 1P | 328 | 1008 | -16790 | 114 | -1403 | -234 | -26531 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.98 | 0.27 | 2.70 | 6.99 | 0.81 | 11.2 |
| 2 | 328 | 1729 | -24990 | 142 | -2043 | -290 | -38511 | 4.62 | 9.24 | 9.24 | 16.93 | 2 | 0.93 | 0.40 | 3.99 | 10.41 | 1.18 | 7.9 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 13.85 staffe= 2 d 8 / 7.9 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 65** NI 15083 NF 15508 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.5700 5.4468 24.0168 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1B | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1D | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1E | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1F | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1G | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1H | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1I | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1J | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1K | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1L | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1M | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1N | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1O | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 1P | 0 | 546 | 15990 | -100 | 252 | -106 | -19610 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.91 | 6.66 | 0.15 | 11.2 |
| 2 | 0 | 1014 | 24160 | -160 | 369 | -187 | -30670 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 1.00 | 0.30 | 2.88 | 10.06 | 0.21 | 9.6 |

apost= -- aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1B | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1C | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1D | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1E | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1F | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1G | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1H | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1I | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1J | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1K | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1L | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1M | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1N | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1O | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 1P | 35 | 546 | 15219 | -100 | 252 | -71 | -14099 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.90 | 0.19 | 1.83 | 6.34 | 0.15 | 11.2 |
| 2 | 35 | 1014 | 23019 | -160 | 369 | -131 | -22340 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.29 | 2.76 | 9.59 | 0.21 | 10.0 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1B | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1C | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1D | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1E | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1F | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1G | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1H | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1I | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1J | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1K | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1L | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1M | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1N | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1O | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 1P | 71 | 546 | 14448 | -100 | 252 | -35 | -8860 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.76 | 0.18 | 1.74 | 6.02 | 0.15 | 11.2 |
| 2 | 71 | 1014 | 21878 | -160 | 369 | -74 | -14414 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.28 | 2.63 | 9.11 | 0.21 | 10.5 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1B | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1C | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1D | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1E | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1F | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1G | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1H | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1I | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1J | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1K | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1L | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1M | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1N | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1O | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 1P | 106 | 546 | 13678 | -100 | 252 | 0 | -3893 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.51 | 0.17 | 1.66 | 5.70 | 0.15 | 16.8 |
| 2 | 106 | 1014 | 20737 | -160 | 369 | -18 | -6890 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.26 | 2.51 | 8.63 | 0.21 | 11.1 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 11.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1B | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1C | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1D | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1E | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1F | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1G | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1H | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1I | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1J | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1K | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1L | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1M | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1N | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1O | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |
| 1P | 141 | 546 | 12907 | -100 | 252 | 36 | 801 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.12 | 0.16 | 1.57 | 5.37 | 0.15 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 141 | 1014 | 19596 | -160 | 369 | 39 | 232 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.07 | 0.25 | 2.38 | 8.16 | 0.21 | 11.7 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 11.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1B | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1C | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1D | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1E | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1F | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1G | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1H | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1I | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1J | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1K | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1L | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1M | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1N | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1O | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 1P | 177 | 546 | 12136 | -100 | 252 | 71 | 5223 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.68 | 0.16 | 1.49 | 5.05 | 0.15 | 16.8 |
| 2 | 177 | 1014 | 18455 | -160 | 369 | 95 | 6950 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.24 | 2.25 | 7.68 | 0.21 | 12.4 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 12.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1B | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1C | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1D | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1E | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1F | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1G | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1H | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1I | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1J | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1K | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1L | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1M | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1N | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1O | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 1P | 212 | 546 | 11365 | -100 | 252 | 107 | 9373 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.80 | 0.15 | 1.40 | 4.73 | 0.15 | 16.8 |
| 2 | 212 | 1014 | 17314 | -160 | 369 | 151 | 13266 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.22 | 2.13 | 7.21 | 0.21 | 13.2 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 13.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1B | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1C | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1D | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1E | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1F | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1G | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1H | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1I | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1J | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1K | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1L | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1M | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1N | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1O | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 1P | 247 | 546 | 10594 | -100 | 252 | 142 | 13251 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.14 | 1.32 | 4.41 | 0.15 | 16.8 |
| 2 | 247 | 1014 | 16173 | -160 | 369 | 208 | 19178 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.21 | 1.89 | 6.73 | 0.21 | 14.0 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 14.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1B | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1C | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1D | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1E | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1F | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1G | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1H | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1I | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1J | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1K | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1L | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1M | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1N | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1O | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 1P | 282 | 546 | 9824 | -100 | 252 | 177 | 16856 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.13 | 1.17 | 4.09 | 0.15 | 16.8 |
| 2 | 282 | 1014 | 15032 | -160 | 369 | 264 | 24688 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.20 | 1.61 | 6.26 | 0.21 | 15.0 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 15.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1B | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1C | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1D | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1E | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1F | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1G | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1H | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1I | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1J | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1L | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1M | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1N | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1O | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 1P | 318 | 546 | 9053 | -100 | 252 | 213 | 20189 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.12 | 1.03 | 3.77 | 0.15 | 16.8 |
| 2 | 318 | 1014 | 13891 | -160 | 369 | 321 | 29796 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.97 | 0.18 | 1.45 | 5.78 | 0.21 | 16.2 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1M | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1O | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 353 | 546 | 8282 | -100 | 252 | 248 | 23250 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 353 | 1014 | 12750 | -160 | 369 | 377 | 34500 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.91 | 0.17 | 1.27 | 5.31 | 0.21 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 64** NI 15508 NF 15509 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 635 | 1652 | -12 | -35 | 65 | 23280 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.86 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 1154 | 2716 | -43 | -51 | 50 | 34560 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.91 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | 635 | 979 | -12 | -35 | 69 | 23708 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | 1154 | 1723 | -43 | -51 | 63 | 35283 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.93 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | 635 | 306 | -12 | -35 | 73 | 23917 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | 1154 | 731 | -43 | -51 | 77 | 35684 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.94 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | 635 | -367 | -12 | -35 | 76 | 23907 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | 1154 | -262 | -43 | -51 | 91 | 35761 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.94 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1B | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1C | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1D | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1E | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1F | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1G | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1H | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1I | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1J | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1K | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1L | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1M | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1N | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1O | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1P | 130 | 635 | -1040 | -12 | -35 | 80 | 23678 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 2 | 130 | 1154 | -1255 | -43 | -51 | 105 | 35515 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.93 | 0.02 | 0.13 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 635 | -1713 | -12 | -35 | 84 | 23229 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | 1154 | -2248 | -43 | -51 | 119 | 34945 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.92 | 0.03 | 0.21 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1B | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1C | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1D | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1E | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1F | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1G | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1H | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1I | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1J | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1K | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1L | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1M | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1N | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1O | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1P | 195 | 635 | -2386 | -12 | -35 | 88 | 22562 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 2 | 195 | 1154 | -3240 | -43 | -51 | 133 | 34053 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | 635 | -3059 | -12 | -35 | 92 | 21675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | 1154 | -4233 | -43 | -51 | 147 | 32837 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.96 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 260 | 635 | -3732 | -12 | -35 | 95 | 20569 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.05 | 0.38 | 0.00 | 0.00 | 16.8 |
| 2 | 260 | 1154 | -5226 | -43 | -51 | 161 | 31298 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.91 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | 635 | -4405 | -12 | -35 | 99 | 19244 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | 1154 | -6218 | -43 | -51 | 174 | 29435 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.96 | 0.08 | 0.58 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | 635 | -5078 | -12 | -35 | 103 | 17700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.06 | 0.54 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | 1154 | -7211 | -43 | -51 | 188 | 27250 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.89 | 0.09 | 0.67 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 63**  NI 15509  NF 15522  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  10.6600  5.0184  22.6784  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1B | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1C | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1D | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1E | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1F | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1H | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1I | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1J | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1K | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1L | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1M | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1N | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1O | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 1P | 0 | 699 | -12240 | 107 | -663 | 141 | 17890 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.18 | 1.66 | 5.10 | 0.38 | 16.8 |
| 2 | 0 | 1263 | -18100 | 131 | -980 | 174 | 27530 | 9.24 | 4.62 | 12.32 | 3.08 | 2 | 0.90 | 0.26 | 2.19 | 7.54 | 0.57 | 11.6 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= -- staffe= 2 d 8 / 11.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1B | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1C | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1D | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1E | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1F | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1G | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1H | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1I | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1J | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1K | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1L | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1M | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1N | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1O | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 1P | 33 | 699 | -12917 | 107 | -663 | 106 | 13767 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.19 | 1.82 | 5.38 | 0.38 | 16.4 |
| 2 | 33 | 1263 | -19099 | 131 | -980 | 131 | 21431 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.93 | 0.27 | 2.45 | 7.95 | 0.57 | 11.1 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 11.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1B | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1C | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1D | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1E | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1F | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1G | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1H | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1I | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1J | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1K | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1L | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1M | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1N | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1O | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 1P | 66 | 699 | -13594 | 107 | -663 | 70 | 9422 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.19 | 1.90 | 5.66 | 0.38 | 15.6 |
| 2 | 66 | 1263 | -20098 | 131 | -980 | 88 | 15004 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.98 | 0.29 | 2.80 | 8.37 | 0.57 | 10.6 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 10.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1B | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1C | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1D | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1E | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1F | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1G | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1H | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1I | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1J | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1K | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1L | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1M | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1N | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1O | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 1P | 98 | 699 | -14271 | 107 | -663 | 35 | 4855 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.64 | 0.20 | 1.97 | 5.94 | 0.38 | 15.0 |
| 2 | 98 | 1263 | -21097 | 131 | -980 | 45 | 8250 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.73 | 0.30 | 2.91 | 8.78 | 0.57 | 10.1 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 10.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1B | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1C | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1D | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1E | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1F | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1G | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1H | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1I | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1J | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1K | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1L | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1M | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1N | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1O | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 1P | 131 | 699 | -14948 | 107 | -663 | -0 | 65 | 3.08 | 3.08 | 9.24 | 3.08 | 1 | 0.04 | 0.21 | 2.05 | 6.22 | 0.38 | 14.4 |
| 2 | 131 | 1263 | -22096 | 131 | -980 | 2 | 1168 | 4.62 | 4.62 | 9.24 | 3.08 | 2 | 0.20 | 0.31 | 3.02 | 9.20 | 0.57 | 9.7 |

apost= 1.54 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 9.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1B | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1C | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1D | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1E | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1F | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1G | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1H | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1I | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1J | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1K | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1L | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1M | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1N | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1O | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 1P | 164 | 699 | -15625 | 107 | -663 | -35 | -4947 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.65 | 0.22 | 2.12 | 6.51 | 0.38 | 13.8 |
| 2 | 164 | 1263 | -23095 | 131 | -980 | -41 | -6243 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.83 | 0.32 | 3.13 | 9.62 | 0.57 | 9.4 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 9.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1B | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1C | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1D | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1E | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1F | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1G | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1H | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1I | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1J | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1K | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1L | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1M | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1N | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1O | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 1P | 197 | 699 | -16302 | 107 | -663 | -71 | -10181 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.23 | 2.20 | 6.79 | 0.38 | 13.3 |
| 2 | 197 | 1263 | -24094 | 131 | -980 | -84 | -13980 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.91 | 0.33 | 3.24 | 10.03 | 0.57 | 9.0 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 9.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1B | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1C | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1D | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1E | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1F | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1G | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1H | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1I | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1J | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1K | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1L | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1M | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1N | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1O | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 1P | 230 | 699 | -16979 | 107 | -663 | -106 | -15637 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.81 | 0.23 | 2.27 | 7.07 | 0.38 | 12.8 |
| 2 | 230 | 1263 | -25093 | 131 | -980 | -127 | -22046 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.96 | 0.35 | 3.35 | 10.45 | 0.57 | 8.7 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 8.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1B | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1C | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1D | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1E | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1F | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1G | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1H | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1I | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1J | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1K | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1L | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1M | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1N | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1O | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 1P | 262 | 699 | -17656 | 107 | -663 | -141 | -21316 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.24 | 2.34 | 7.35 | 0.38 | 11.2 |
| 2 | 262 | 1263 | -26092 | 131 | -980 | -170 | -30440 | 4.62 | 9.24 | 6.16 | 12.32 | 2 | 0.99 | 0.36 | 3.46 | 10.86 | 0.57 | 8.4 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 8.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1B | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1C | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1D | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1E | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1F | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1G | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1H | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1I | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1J | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1K | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1L | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1M | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1N | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 1P | 295 | 699 | -18333 | 107 | -663 | -176 | -27217 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.88 | 0.25 | 2.42 | 7.63 | 0.38 | 11.2 |
| 2 | 295 | 1263 | -27091 | 131 | -980 | -214 | -39161 | 4.62 | 9.24 | 9.24 | 16.93 | 2 | 0.94 | 0.37 | 3.57 | 11.28 | 0.57 | 8.1 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 13.85 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1B | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1C | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1D | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1E | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1F | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1G | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1H | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1I | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1J | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1K | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1L | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1M | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1N | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1O | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 1P | 328 | 699 | -19010 | 107 | -663 | -212 | -30488 | 3.08 | 9.24 | 7.70 | 12.32 | 2 | 0.98 | 0.26 | 2.49 | 7.92 | 0.38 | 11.2 |
| 2 | 328 | 1263 | -28090 | 131 | -980 | -257 | -43997 | 4.62 | 9.24 | 9.24 | 18.47 | 2 | 0.98 | 0.38 | 3.68 | 11.70 | 0.57 | 7.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 15.39 staffe= 2 d 8 / 7.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 68** NI 15082 NF 15511 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.0595 5.4468 24.5063 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1B | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1C | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1D | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1E | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1F | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1G | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1H | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1I | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1J | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1K | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1L | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1M | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1N | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1O | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 1P | 0 | 1422 | 18500 | -256 | 113 | -521 | -27360 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.89 | 0.22 | 2.10 | 7.70 | 0.07 | 11.2 |
| 2 | 0 | 2509 | 27980 | -392 | 152 | -798 | -42610 | 3.08 | 9.24 | 9.24 | 18.47 | 2 | 0.95 | 0.34 | 3.17 | 11.65 | 0.09 | 8.5 |

apost= -- aant= 6.16 ainf= 6.16 asup= 15.39 staffe= 2 d 8 / 8.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1B | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1C | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1D | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1E | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1F | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1G | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1H | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1I | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1J | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1K | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1L | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1M | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1N | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1O | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 1P | 35 | 1422 | 17712 | -256 | 113 | -430 | -20965 | 3.08 | 9.24 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.02 | 7.38 | 0.07 | 11.2 |
| 2 | 35 | 2509 | 26817 | -392 | 152 | -660 | -32935 | 3.08 | 9.24 | 7.70 | 13.85 | 2 | 0.97 | 0.32 | 3.04 | 11.17 | 0.09 | 8.9 |

apost= -- aant= 6.16 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 8.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1B | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1C | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1D | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1E | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1F | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1G | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1H | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1I | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1J | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1K | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1L | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1M | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1N | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 1O | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 71 | 1422 | 16924 | -256 | 113 | -340 | -14849 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.97 | 0.20 | 1.93 | 7.05 | 0.07 | 11.2 |
| 2 | 71 | 2509 | 25654 | -392 | 152 | -522 | -23670 | 3.08 | 9.24 | 6.16 | 10.78 | 2 | 0.90 | 0.31 | 2.92 | 10.68 | 0.09 | 9.3 |

apost= -- aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1B | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1C | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1D | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1E | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1F | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1G | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1H | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1I | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1J | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1K | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1L | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1M | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1N | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1O | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 1P | 106 | 1422 | 16136 | -256 | 113 | -249 | -9011 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.80 | 0.20 | 1.84 | 6.72 | 0.07 | 14.7 |
| 2 | 106 | 2509 | 24491 | -392 | 152 | -384 | -14816 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.30 | 2.79 | 10.20 | 0.09 | 9.7 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 9.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1B | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1C | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1D | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1E | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1F | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1G | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1H | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1I | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1J | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1K | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1L | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1M | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1N | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1O | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 1P | 141 | 1422 | 15348 | -256 | 113 | -159 | -3452 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.49 | 0.19 | 1.76 | 6.39 | 0.07 | 15.4 |
| 2 | 141 | 2509 | 23328 | -392 | 152 | -245 | -6373 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.90 | 0.28 | 2.66 | 9.71 | 0.09 | 10.2 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 10.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1B | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1C | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1D | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1E | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1F | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1G | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1H | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1I | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1J | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1K | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1L | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1M | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1N | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1O | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 1P | 177 | 1422 | 14560 | -256 | 113 | -68 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.29 | 0.18 | 1.67 | 6.06 | 0.07 | 16.2 |
| 2 | 177 | 2509 | 22165 | -392 | 152 | -107 | 1659 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.31 | 0.27 | 2.53 | 9.23 | 0.09 | 10.7 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 10.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1B | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1C | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1D | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1E | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1F | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1G | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1H | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1I | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1J | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1K | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1L | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1M | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1N | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1O | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 1P | 212 | 1422 | 13772 | -256 | 113 | 23 | 6832 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.91 | 0.17 | 1.58 | 5.73 | 0.07 | 16.8 |
| 2 | 212 | 2509 | 21002 | -392 | 152 | 31 | 9281 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.25 | 2.40 | 8.75 | 0.09 | 11.3 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 11.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1B | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1C | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1D | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1E | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1F | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1G | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1H | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1I | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1K | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1L | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1M | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1N | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1O | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 1P | 247 | 1422 | 12984 | -256 | 113 | 113 | 11557 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.16 | 1.50 | 5.41 | 0.07 | 16.8 |
| 2 | 247 | 2509 | 19839 | -392 | 152 | 170 | 16492 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.24 | 2.14 | 8.26 | 0.09 | 11.9 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 11.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1B | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1C | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1D | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1E | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1F | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1G | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1H | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1I | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1J | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1K | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1L | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1M | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1N | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1O | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 1P | 282 | 1422 | 12196 | -256 | 113 | 204 | 16003 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.15 | 1.33 | 5.08 | 0.07 | 16.8 |
| 2 | 282 | 2509 | 18676 | -392 | 152 | 308 | 23292 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.88 | 0.23 | 1.81 | 7.78 | 0.09 | 12.6 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 12.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1B | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1C | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1D | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1E | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1F | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1G | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1H | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1I | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1J | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1K | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1L | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1M | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1N | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1O | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 1P | 318 | 1422 | 11408 | -256 | 113 | 294 | 20171 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.14 | 1.17 | 4.75 | 0.07 | 16.8 |
| 2 | 318 | 2509 | 17513 | -392 | 152 | 446 | 29681 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.98 | 0.21 | 1.63 | 7.29 | 0.09 | 13.5 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 13.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1B | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1C | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1D | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1E | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1F | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1G | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1H | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1I | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1J | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1K | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1L | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1M | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1N | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1O | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 1P | 353 | 1422 | 10620 | -256 | 113 | 385 | 24060 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.13 | 1.05 | 4.42 | 0.07 | 16.8 |
| 2 | 353 | 2509 | 16350 | -392 | 152 | 584 | 35660 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.95 | 0.20 | 1.43 | 6.81 | 0.09 | 14.4 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 67** NI 15511 NF 15512 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.1110 5.0184 23.1294 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 1205 | 2068 | -80 | -15 | -47 | 23800 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.89 | 0.03 | 0.20 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 2187 | 3345 | -134 | -37 | -96 | 35260 | 3.08 | 9.24 | 15.39 | 3.08 | 2 | 0.94 | 0.04 | 0.30 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 6.16 ainf= 12.32 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | 1205 | 1380 | -80 | -15 | -21 | 24362 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | 2187 | 2333 | -134 | -37 | -52 | 36184 | 3.08 | 9.24 | 15.39 | 3.08 | 2 | 0.96 | 0.03 | 0.21 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 6.16 ainf= 12.32 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | 1205 | 692 | -80 | -15 | 5 | 24700 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | 2187 | 1321 | -134 | -37 | -9 | 36779 | 3.08 | 3.08 | 15.39 | 3.08 | 2 | 0.98 | 0.02 | 0.13 | 0.00 | 0.00 | 16.8 |

apost= --  aant= --  ainf= 12.32 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | 1205 | 5 | -80 | -15 | 31 | 24813 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | 2187 | 310 | -134 | -37 | 35 | 37045 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.98 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 12.32 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1B | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1C | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1D | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1E | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1F | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1G | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1H | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1I | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1J | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1K | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1L | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1M | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1N | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1O | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1P | 130 | 1205 | -683 | -80 | -15 | 57 | 24703 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.92 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 2 | 130 | 2187 | -702 | -134 | -37 | 78 | 36981 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.98 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 12.32 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 1205 | -1371 | -80 | -15 | 83 | 24369 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.02 | 0.14 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | 2187 | -1714 | -134 | -37 | 122 | 36588 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1B | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1C | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1D | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1E | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1F | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1G | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1H | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1I | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1J | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1K | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1L | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1M | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1N | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1O | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1P | 195 | 1205 | -2059 | -80 | -15 | 109 | 23811 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 2 | 195 | 2187 | -2726 | -134 | -37 | 165 | 35865 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.95 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | 1205 | -2747 | -80 | -15 | 135 | 23029 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.03 | 0.28 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | 2187 | -3738 | -134 | -37 | 209 | 34813 | 9.24 | 3.08 | 15.39 | 3.08 | 2 | 0.92 | 0.05 | 0.33 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1B | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1C | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1D | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1E | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1F | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1G | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1H | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1I | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1J | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1K | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1L | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1M | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1N | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1O | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1P | 260 | 1205 | -3434 | -80 | -15 | 161 | 22024 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |
| 2 | 260 | 2187 | -4749 | -134 | -37 | 252 | 33431 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.98 | 0.06 | 0.42 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | 1205 | -4122 | -80 | -15 | 186 | 20794 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | 2187 | -5761 | -134 | -37 | 296 | 31720 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.93 | 0.07 | 0.51 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | 1205 | -4810 | -80 | -15 | 212 | 19340 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | 2187 | -6773 | -134 | -37 | 339 | 29680 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.98 | 0.08 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 66**  NI 15512  NF 15521  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.1110  5.0184  23.1294  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1B | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1C | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1D | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1E | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1F | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1G | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1H | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1I | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1J | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1K | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1L | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1M | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1N | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1O | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 1P | 0 | 983 | -12660 | -10 | -157 | -35 | 19330 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 1.00 | 0.16 | 1.40 | 5.27 | 0.09 | 16.8 |
| 2 | 0 | 1861 | -18640 | -33 | -205 | -71 | 29640 | 3.08 | 9.24 | 12.32 | 3.08 | 2 | 0.97 | 0.23 | 1.77 | 7.76 | 0.12 | 12.6 |

apost= --  aant= 6.16 ainf= 9.24 asup= --  staffe= 2 d  8 / 12.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1B | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1C | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1D | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1E | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1F | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1G | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1H | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1I | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1J | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1K | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1L | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1M | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1N | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1O | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 1P | 33 | 983 | -13352 | -10 | -157 | -31 | 15067 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.16 | 1.56 | 5.56 | 0.09 | 16.8 |
| 2 | 33 | 1861 | -19659 | -33 | -205 | -60 | 23359 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.88 | 0.24 | 1.93 | 8.19 | 0.12 | 11.9 |

apost= --  aant= 6.16 ainf= 7.70 asup= --  staffe= 2 d  8 / 11.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1B | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1C | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1D | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1E | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1F | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1G | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1H | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1I | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1J | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1K | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1L | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1M | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1N | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1O | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 1P | 66 | 983 | -14044 | -10 | -157 | -28 | 10577 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.92 | 0.17 | 1.64 | 5.85 | 0.09 | 16.7 |
| 2 | 66 | 1861 | -20678 | -33 | -205 | -49 | 16745 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.25 | 2.25 | 8.61 | 0.12 | 11.4 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 11.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1B | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1C | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1D | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1E | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1F | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1G | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1H | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1I | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1J | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1K | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1L | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1M | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1N | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1O | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 1P | 98 | 983 | -14736 | -10 | -157 | -24 | 5860 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.18 | 1.72 | 6.14 | 0.09 | 15.9 |
| 2 | 98 | 1861 | -21697 | -33 | -205 | -38 | 9796 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.87 | 0.27 | 2.51 | 9.03 | 0.12 | 10.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 10.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1B | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1C | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1D | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1E | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1F | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1G | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1H | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1I | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1J | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1K | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1L | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1M | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1N | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1O | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 1P | 131 | 983 | -15428 | -10 | -157 | -21 | 915 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.15 | 0.19 | 1.79 | 6.42 | 0.09 | 15.2 |
| 2 | 131 | 1861 | -22716 | -33 | -205 | -28 | 2513 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.39 | 0.28 | 2.62 | 9.46 | 0.12 | 10.4 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 10.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1B | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1C | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1D | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1E | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1F | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1G | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1H | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1I | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1J | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1K | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1L | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1M | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1N | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1O | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 1P | 164 | 983 | -16120 | -10 | -157 | -18 | -4256 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.57 | 0.20 | 1.87 | 6.71 | 0.09 | 14.6 |
| 2 | 164 | 1861 | -23735 | -33 | -205 | -17 | -5104 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.72 | 0.29 | 2.74 | 9.88 | 0.12 | 9.9 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 9.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1B | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1C | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1D | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1E | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1F | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1G | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1H | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1I | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1J | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1K | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1L | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1M | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1N | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1O | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 1P | 197 | 983 | -16812 | -10 | -157 | -14 | -9655 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.84 | 0.21 | 1.94 | 7.00 | 0.09 | 14.0 |
| 2 | 197 | 1861 | -24754 | -33 | -205 | -6 | -13055 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.86 | 0.30 | 2.85 | 10.31 | 0.12 | 9.5 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 9.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1B | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1C | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1D | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1E | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1F | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1G | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1H | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1I | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1J | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1K | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1L | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1M | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1O | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 1P | 230 | 983 | -17504 | -10 | -157 | -11 | -15280 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.99 | 0.21 | 2.02 | 7.29 | 0.09 | 13.5 |
| 2 | 230 | 1861 | -25773 | -33 | -205 | 5 | -21340 | 3.08 | 3.08 | 3.08 | 9.24 | 2 | 0.93 | 0.31 | 2.96 | 10.73 | 0.12 | 9.2 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 9.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1B | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1C | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1D | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1E | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1F | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1G | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1H | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1I | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1J | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1K | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1L | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1M | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1N | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1O | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 1P | 262 | 983 | -18196 | -10 | -157 | -7 | -21133 | 3.08 | 3.08 | 6.16 | 9.24 | 2 | 0.91 | 0.22 | 2.10 | 7.58 | 0.09 | 11.2 |
| 2 | 262 | 1861 | -26792 | -33 | -205 | 16 | -29959 | 9.24 | 3.08 | 6.16 | 12.32 | 2 | 0.98 | 0.33 | 3.07 | 11.16 | 0.12 | 8.8 |

apost= 6.16 aant= --  ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 8.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1B | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1C | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1D | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1E | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1F | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1G | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1H | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1I | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1J | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1K | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1L | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1M | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1N | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1O | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 1P | 295 | 983 | -18888 | -10 | -157 | -4 | -27213 | 3.08 | 3.08 | 6.16 | 12.32 | 2 | 0.88 | 0.23 | 2.17 | 7.87 | 0.09 | 11.2 |
| 2 | 295 | 1861 | -27811 | -33 | -205 | 27 | -38913 | 9.24 | 3.08 | 9.24 | 16.93 | 2 | 0.94 | 0.34 | 3.18 | 11.58 | 0.12 | 8.5 |

apost= 6.16 aant= --  ainf= 6.16 asup= 13.85 staffe= 2 d  8 / 8.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1B | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1C | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1D | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1E | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1F | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1G | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1H | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1I | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1J | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1K | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1L | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1M | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1N | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1O | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 1P | 328 | 983 | -19580 | -10 | -157 | -1 | -30583 | 3.08 | 3.08 | 7.70 | 12.32 | 2 | 0.99 | 0.24 | 2.25 | 8.15 | 0.09 | 11.2 |
| 2 | 328 | 1861 | -28830 | -33 | -205 | 38 | -43875 | 9.24 | 3.08 | 9.24 | 18.47 | 2 | 0.98 | 0.35 | 3.30 | 12.00 | 0.12 | 8.2 |

apost= 6.16 aant= --  ainf= 6.16 asup= 15.39 staffe= 2 d  8 / 8.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 71**  NI 15081  NF 15514  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.5490  5.4468  24.9958  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1B | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1C | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1D | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1E | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1F | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1G | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1H | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1I | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1J | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1K | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1L | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1M | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1N | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 1P | 0 | 1312 | 15250 | -114 | -287 | -257 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.19 | 1.85 | 6.35 | 0.17 | 11.2 |
| 2 | 0 | 2022 | 23090 | -184 | -441 | -411 | -28110 | 3.08 | 9.24 | 6.16 | 12.32 | 2 | 0.93 | 0.29 | 2.81 | 9.61 | 0.25 | 9.9 |

apost= -- aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 9.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1B | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1C | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1D | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1E | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1F | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1G | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1H | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1I | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1J | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1K | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1L | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1M | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1N | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1O | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 1P | 35 | 1312 | 14445 | -114 | -287 | -217 | -12687 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.18 | 1.76 | 6.01 | 0.17 | 11.2 |
| 2 | 35 | 2022 | 21904 | -184 | -441 | -346 | -20166 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.89 | 0.28 | 2.68 | 9.12 | 0.25 | 10.4 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1B | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1C | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1D | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1E | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1F | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1G | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1H | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1I | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1J | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1K | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1L | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1M | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1N | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1O | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 1P | 71 | 1312 | 13639 | -114 | -287 | -176 | -7728 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.18 | 1.67 | 5.68 | 0.17 | 11.2 |
| 2 | 71 | 2022 | 20718 | -184 | -441 | -281 | -12641 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.84 | 0.27 | 2.55 | 8.63 | 0.25 | 11.0 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1B | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1C | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1D | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1E | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1F | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1G | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1H | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1I | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1J | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1K | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1L | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1M | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1N | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1O | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 1P | 106 | 1312 | 12834 | -114 | -287 | -136 | -3054 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.44 | 0.17 | 1.59 | 5.34 | 0.17 | 16.8 |
| 2 | 106 | 2022 | 19532 | -184 | -441 | -216 | -5534 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.78 | 0.25 | 2.42 | 8.13 | 0.25 | 11.6 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 11.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1B | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1C | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1D | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1E | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1F | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1G | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1H | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1I | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1J | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1K | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1L | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1M | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1N | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1O | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 1P | 141 | 1312 | 12028 | -114 | -287 | -96 | 1335 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.22 | 0.16 | 1.50 | 5.01 | 0.17 | 16.8 |
| 2 | 141 | 2022 | 18346 | -184 | -441 | -151 | 1154 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.23 | 0.24 | 2.29 | 7.64 | 0.25 | 12.3 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 12.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1B | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1C | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1D | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1E | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1F | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1G | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1H | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1J | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1K | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1L | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1M | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1N | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1O | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 1P | 177 | 1312 | 11223 | -114 | -287 | -55 | 5441 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.15 | 1.41 | 4.67 | 0.17 | 16.8 |
| 2 | 177 | 2022 | 17160 | -184 | -441 | -86 | 7423 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.22 | 2.16 | 7.15 | 0.25 | 13.1 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 13.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1B | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1C | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1D | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1E | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1F | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1G | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1H | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1I | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1J | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1K | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1L | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1M | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1N | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1O | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 1P | 212 | 1312 | 10418 | -114 | -287 | -15 | 9261 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.14 | 1.32 | 4.34 | 0.17 | 16.8 |
| 2 | 212 | 2022 | 15974 | -184 | -441 | -21 | 13274 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.21 | 2.03 | 6.65 | 0.25 | 14.0 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 14.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1B | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1C | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1D | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1E | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1F | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1G | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1H | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1I | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1J | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1K | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1L | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1M | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1N | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1O | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 1P | 247 | 1312 | 9612 | -114 | -287 | 25 | 12798 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.13 | 1.23 | 4.00 | 0.17 | 16.8 |
| 2 | 247 | 2022 | 14788 | -184 | -441 | 44 | 18706 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.20 | 1.79 | 6.16 | 0.25 | 15.1 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 15.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1B | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1C | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1D | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1E | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1F | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1G | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1H | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1I | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1J | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1K | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1L | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1M | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1N | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1O | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 1P | 282 | 1312 | 8807 | -114 | -287 | 66 | 16050 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.12 | 1.08 | 3.67 | 0.17 | 16.8 |
| 2 | 282 | 2022 | 13602 | -184 | -441 | 109 | 23719 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.18 | 1.52 | 5.66 | 0.25 | 16.3 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1B | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1C | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1D | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1E | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1F | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1G | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1H | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1I | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1J | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1K | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1L | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1M | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1N | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1O | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 1P | 318 | 1312 | 8001 | -114 | -287 | 106 | 19017 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 0.00 | 0.00 | 16.8 |
| 2 | 318 | 2022 | 12416 | -184 | -441 | 174 | 28314 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.93 | 0.17 | 1.36 | 5.17 | 0.25 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1B | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1D | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1E | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1F | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1G | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1H | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1I | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1J | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1K | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1L | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1M | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1N | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1O | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1P | 353 | 1312 | 7196 | -114 | -287 | 147 | 21700 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.87 | 0.00 | 0.00 | 16.8 |
| 2 | 353 | 2022 | 11230 | -184 | -441 | 240 | 32490 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.95 | 0.15 | 1.22 | 4.68 | 0.25 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 70** NI 15514 NF 15515 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.5620 5.0184 23.5804 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 1720 | 1744 | -6 | 6 | 48 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 2616 | 2770 | -29 | -51 | 39 | 32440 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.96 | 0.04 | 0.27 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | 1720 | 1042 | -6 | 6 | 50 | 22123 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | 2616 | 1739 | -29 | -51 | 48 | 33174 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.98 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | 1720 | 339 | -6 | 6 | 52 | 22348 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | 2616 | 708 | -29 | -51 | 58 | 33573 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | 1720 | -363 | -6 | 6 | 54 | 22344 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | 2616 | -322 | -29 | -51 | 67 | 33636 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1K | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 130 | 1720 | -1066 | -6 | 6 | 56 | 22111 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 130 | 2616 | -1353 | -29 | -51 | 77 | 33364 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 1720 | -1769 | -6 | 6 | 58 | 21649 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | 2616 | -2384 | -29 | -51 | 86 | 32756 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.97 | 0.03 | 0.23 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1B | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1C | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1D | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1E | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1F | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1G | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1H | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1I | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1J | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1K | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1L | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1M | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1N | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1O | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 1P | 195 | 1720 | -2471 | -6 | 6 | 60 | 20959 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |
| 2 | 195 | 2616 | -3415 | -29 | -51 | 95 | 31812 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.94 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | 1720 | -3174 | -6 | 6 | 62 | 20040 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | 2616 | -4446 | -29 | -51 | 105 | 30532 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.90 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1B | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1C | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1D | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1E | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1F | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1G | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1H | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1I | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1J | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1K | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1L | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1M | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1N | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1O | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 1P | 260 | 1720 | -3876 | -6 | 6 | 64 | 18892 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |
| 2 | 260 | 2616 | -5476 | -29 | -51 | 114 | 28917 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.96 | 0.07 | 0.51 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | 1720 | -4578 | -6 | 6 | 67 | 17515 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | 2616 | -6507 | -29 | -51 | 124 | 26966 | 9.24 | 3.08 | 12.32 | 3.08 | 2 | 0.90 | 0.08 | 0.60 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | 1720 | -5281 | -6 | 6 | 69 | 15910 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | 2616 | -7538 | -29 | -51 | 133 | 24680 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.93 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 69**  NI 15515  NF 15520  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.5620  5.0184  23.5804  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | | ---------- | ---------- | ---------- | ---------- | ---------- | ----- |
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1B | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1C | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1D | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1E | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1F | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1G | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1H | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1I | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1J | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1K | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1L | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1M | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1N | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1O | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 1P | 0 | 2099 | -11040 | 58 | 878 | 90 | 16150 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.67 | 4.60 | 0.51 | 16.8 |
| 2 | 0 | 3170 | -16500 | 69 | 1286 | 112 | 25040 | 9.24 | 4.62 | 10.78 | 3.08 | 2 | 0.95 | 0.26 | 2.30 | 6.87 | 0.74 | 12.0 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= -- staffe= 2 d 8 / 12.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1B | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1C | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1D | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1E | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1F | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1G | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1H | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1I | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1J | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1K | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1L | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1M | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1N | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1O | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 1P | 33 | 2099 | -11747 | 58 | 878 | 70 | 12416 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.83 | 0.18 | 1.82 | 4.89 | 0.51 | 16.8 |
| 2 | 33 | 3170 | -17538 | 69 | 1286 | 90 | 19460 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.87 | 0.27 | 2.48 | 7.30 | 0.74 | 11.4 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 11.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1B | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1C | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1D | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1E | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1F | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1G | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1H | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1I | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1J | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1K | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1L | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1M | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1N | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1O | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 1P | 66 | 2099 | -12454 | 58 | 878 | 51 | 8450 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.77 | 0.19 | 1.90 | 5.19 | 0.51 | 16.2 |
| 2 | 66 | 3170 | -18576 | 69 | 1286 | 67 | 13539 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.28 | 2.82 | 7.74 | 0.74 | 10.9 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 10.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1B | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1C | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1D | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1E | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1F | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1G | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1H | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1I | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1J | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1K | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1L | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1M | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1N | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1O | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 1P | 98 | 2099 | -13161 | 58 | 878 | 32 | 4252 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.62 | 0.20 | 1.98 | 5.48 | 0.51 | 15.5 |
| 2 | 98 | 3170 | -19614 | 69 | 1286 | 44 | 7278 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.70 | 0.30 | 2.94 | 8.17 | 0.74 | 10.4 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 10.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1B | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1C | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1D | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1E | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1F | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1G | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1H | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1I | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1J | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1K | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1L | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1M | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1N | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1O | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 1P | 131 | 2099 | -13868 | 58 | 878 | 13 | -178 | 9.24 | 4.62 | 3.08 | 9.24 | 1 | 0.11 | 0.21 | 2.06 | 5.77 | 0.51 | 14.8 |
| 2 | 131 | 3170 | -20652 | 69 | 1286 | 22 | 677 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.22 | 0.31 | 3.05 | 8.60 | 0.74 | 10.0 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 6.16 staffe= 2 d 8 / 10.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1B | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1C | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1D | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1E | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1F | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1G | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1H | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1I | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1J | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1K | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1L | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1N | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1O | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 1P | 164 | 2099 | -14575 | 58 | 878 | -6 | -4840 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.69 | 0.22 | 2.14 | 6.07 | 0.51 | 14.2 |
| 2 | 164 | 3170 | -21690 | 69 | 1286 | -1 | -6265 | 4.62 | 4.62 | 3.08 | 9.24 | 2 | 0.91 | 0.32 | 3.17 | 9.03 | 0.74 | 9.6 |

apost= 1.54 aant= 1.54 ainf= -- asup= 6.16 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1B | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1C | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1D | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1E | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1F | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1G | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1H | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1I | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1J | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1K | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1L | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1M | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1N | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1O | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 1P | 197 | 2099 | -15282 | 58 | 878 | -25 | -9734 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.87 | 0.22 | 2.21 | 6.36 | 0.51 | 13.6 |
| 2 | 197 | 3170 | -22728 | 69 | 1286 | -23 | -13547 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.92 | 0.33 | 3.28 | 9.46 | 0.74 | 9.2 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 9.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1B | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1C | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1D | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1E | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1F | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1G | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1H | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1I | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1J | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1K | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1L | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1M | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1N | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1O | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 1P | 230 | 2099 | -15989 | 58 | 878 | -44 | -14860 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.98 | 0.23 | 2.29 | 6.66 | 0.51 | 13.1 |
| 2 | 230 | 3170 | -23766 | 69 | 1286 | -46 | -21170 | 4.62 | 9.24 | 3.08 | 9.24 | 2 | 0.94 | 0.35 | 3.39 | 9.90 | 0.74 | 8.8 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 8.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1B | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1C | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1D | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1E | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1F | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1G | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1H | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1I | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1J | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1K | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1L | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1M | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1N | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1O | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 1P | 262 | 2099 | -16696 | 58 | 878 | -63 | -20218 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.89 | 0.24 | 2.37 | 6.95 | 0.51 | 11.2 |
| 2 | 262 | 3170 | -24804 | 69 | 1286 | -68 | -29133 | 4.62 | 9.24 | 6.16 | 12.32 | 2 | 0.97 | 0.36 | 3.51 | 10.33 | 0.74 | 8.5 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 8.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1B | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1C | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1D | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1E | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1F | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1G | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1H | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1I | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1J | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1K | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1L | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1M | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1N | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1O | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 1P | 295 | 2099 | -17403 | 58 | 878 | -82 | -25808 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.97 | 0.25 | 2.45 | 7.25 | 0.51 | 11.2 |
| 2 | 295 | 3170 | -25842 | 69 | 1286 | -91 | -37436 | 4.62 | 9.24 | 7.70 | 15.39 | 2 | 1.00 | 0.37 | 3.62 | 10.76 | 0.74 | 8.2 |

apost= 1.54 aant= 6.16 ainf= 4.62 asup= 12.32 staffe= 2 d 8 / 8.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1B | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1C | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1D | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1E | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1F | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1H | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1I | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1J | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1K | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1L | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1M | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1N | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1O | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 1P | 328 | 2099 | -18110 | 58 | 878 | -101 | -28913 | 4.62 | 9.24 | 7.70 | 12.32 | 2 | 0.95 | 0.26 | 2.52 | 7.54 | 0.51 | 11.2 |
| 2 | 328 | 3170 | -26880 | 69 | 1286 | -114 | -42048 | 4.62 | 9.24 | 9.24 | 18.47 | 2 | 0.94 | 0.38 | 3.74 | 11.19 | 0.74 | 7.9 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 15.39 staffe= 2 d  8 / 7.9  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 74**  NI 15080  NF 15517  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  7.2090  5.4468  19.6558  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1B | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1C | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1D | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1E | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1F | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1G | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1H | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1I | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1J | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1K | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1L | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1M | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1N | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1O | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 1P | 0 | 3526 | 11910 | 365 | -617 | 809 | -16680 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.68 | 4.96 | 0.36 | 11.2 |
| 2 | 0 | 5321 | 18520 | 499 | -1003 | 1105 | -26740 | 9.24 | 4.62 | 6.16 | 12.32 | 2 | 0.91 | 0.27 | 2.65 | 7.71 | 0.58 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1B | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1C | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1D | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1E | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1F | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1G | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1H | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1I | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1J | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1K | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1L | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1M | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1N | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1O | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 1P | 35 | 3526 | 11293 | 365 | -617 | 680 | -12583 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.16 | 1.62 | 4.70 | 0.36 | 11.2 |
| 2 | 35 | 5321 | 17579 | 499 | -1003 | 929 | -20366 | 9.24 | 4.62 | 4.62 | 9.24 | 2 | 0.94 | 0.26 | 2.54 | 7.32 | 0.58 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1B | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1C | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1D | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1E | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1F | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1G | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1H | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1I | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1J | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1K | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1L | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1M | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1N | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1O | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 1P | 71 | 3526 | 10677 | 365 | -617 | 551 | -8703 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.55 | 4.45 | 0.36 | 11.2 |
| 2 | 71 | 5321 | 16639 | 499 | -1003 | 753 | -14325 | 9.24 | 4.62 | 4.62 | 9.24 | 2 | 0.81 | 0.25 | 2.44 | 6.93 | 0.58 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1B | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1C | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1D | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1E | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1F | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1G | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1I | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1J | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1K | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1L | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1M | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1N | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1O | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 1P | 106 | 3526 | 10060 | 365 | -617 | 423 | -5041 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.78 | 0.15 | 1.48 | 4.19 | 0.36 | 16.8 |
| 2 | 106 | 5321 | 15698 | 499 | -1003 | 576 | -8616 | 9.24 | 4.62 | 3.08 | 9.24 | 2 | 0.87 | 0.24 | 2.33 | 6.54 | 0.58 | 13.1 |

apost= 6.16 aant= 1.54 ainf= -- asup= 6.16 staffe= 2 d 8 / 13.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1B | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1C | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1D | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1E | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1F | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1G | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1H | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1I | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1J | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1K | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1L | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1M | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1N | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1O | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 1P | 141 | 3526 | 9443 | 365 | -617 | 294 | -1597 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.34 | 0.14 | 1.41 | 3.93 | 0.36 | 16.8 |
| 2 | 141 | 5321 | 14758 | 499 | -1003 | 400 | -3238 | 9.24 | 4.62 | 3.08 | 9.24 | 2 | 0.62 | 0.22 | 2.23 | 6.15 | 0.58 | 13.8 |

apost= 6.16 aant= 1.54 ainf= -- asup= 6.16 staffe= 2 d 8 / 13.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1B | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1C | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1D | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1E | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1F | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1G | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1H | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1I | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1J | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1K | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1L | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1M | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1N | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1O | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 1P | 177 | 3526 | 8826 | 365 | -617 | 165 | 1628 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.14 | 1.34 | 3.68 | 0.36 | 16.8 |
| 2 | 177 | 5321 | 13817 | 499 | -1003 | 224 | 1807 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.45 | 0.21 | 2.13 | 5.75 | 0.58 | 14.5 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 14.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1B | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1C | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1D | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1E | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1F | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1G | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1H | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1I | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1J | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1K | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1L | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1M | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1N | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1O | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 1P | 212 | 3526 | 8210 | 365 | -617 | 36 | 4637 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.73 | 0.13 | 1.28 | 3.42 | 0.36 | 16.8 |
| 2 | 212 | 5321 | 12876 | 499 | -1003 | 48 | 6520 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.69 | 0.20 | 2.02 | 5.36 | 0.58 | 15.4 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 15.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1B | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1C | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1D | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1E | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1F | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1G | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1H | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1I | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1J | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1K | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1L | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1M | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1N | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1O | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 1P | 247 | 3526 | 7593 | 365 | -617 | -92 | 7427 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.12 | 1.21 | 3.16 | 0.36 | 16.8 |
| 2 | 247 | 5321 | 11936 | 499 | -1003 | -128 | 10900 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.80 | 0.19 | 1.92 | 4.97 | 0.58 | 16.4 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1C | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1D | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1E | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1F | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1G | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1H | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1I | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1J | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1K | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1L | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1M | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1N | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1O | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 1P | 282 | 3526 | 6976 | 365 | -617 | -221 | 9999 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.11 | 1.14 | 2.91 | 0.36 | 16.8 |
| 2 | 282 | 5321 | 10995 | 499 | -1003 | -305 | 14949 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.18 | 1.74 | 4.58 | 0.58 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1B | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1C | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1D | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1E | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1F | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1G | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1H | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1I | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1J | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1K | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1L | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1M | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1N | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1O | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 1P | 318 | 3526 | 6360 | 365 | -617 | -350 | 12353 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.11 | 1.07 | 2.65 | 0.36 | 16.8 |
| 2 | 318 | 5321 | 10055 | 499 | -1003 | -481 | 18666 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.58 | 4.19 | 0.58 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1B | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1C | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1D | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1E | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1F | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1G | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1H | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1I | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1J | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1K | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1L | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1M | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1N | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1O | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 1P | 353 | 3526 | 5743 | 365 | -617 | -478 | 14490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.01 | 2.39 | 0.36 | 16.8 |
| 2 | 353 | 5321 | 9114 | 499 | -1003 | -657 | 22050 | 4.62 | 9.24 | 10.78 | 3.08 | 2 | 0.87 | 0.16 | 1.45 | 3.80 | 0.58 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 7.70 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 73** NI 15517 NF 15518 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6420 5.0184 18.6604 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 3497 | 1710 | 100 | 597 | 160 | 14370 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.05 | 0.55 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 5287 | 2784 | 137 | 809 | 226 | 21810 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 1.00 | 0.07 | 0.76 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | 3497 | 1168 | 100 | 597 | 127 | 14839 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | 5287 | 1961 | 137 | 809 | 181 | 22583 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.89 | 0.06 | 0.67 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | 3497 | 625 | 100 | 597 | 95 | 15130 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | 5287 | 1139 | 137 | 809 | 136 | 23089 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.05 | 0.59 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | 3497 | 83 | 100 | 597 | 62 | 15246 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.03 | 0.37 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | 5287 | 316 | 137 | 809 | 91 | 23326 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1B | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1C | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1D | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1E | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1F | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1G | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1H | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1I | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1J | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1K | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1L | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1M | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1N | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1O | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1P | 130 | 3497 | -459 | 100 | 597 | 29 | 15185 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 2 | 130 | 5287 | -506 | 137 | 809 | 47 | 23296 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.91 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 3497 | -1002 | 100 | 597 | -3 | 14947 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.82 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 163 | 5287 | -1329 | 137 | 809 | 2 | 22998 | 3.08 | 3.08 | 10.78 | 3.08 | 2 | 0.90 | 0.06 | 0.61 | 0.00 | 0.00 | 16.8 |

apost= -- aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1B | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1C | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1D | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1E | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1F | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1G | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1H | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1I | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1J | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1K | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1L | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1M | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1N | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1O | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1P | 195 | 3497 | -1544 | 100 | 597 | -36 | 14533 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 2 | 195 | 5287 | -2152 | 137 | 809 | -43 | 22432 | 3.08 | 9.24 | 10.78 | 3.08 | 2 | 0.88 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | 3497 | -2086 | 100 | 597 | -69 | 13942 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.95 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | 5287 | -2974 | 137 | 809 | -88 | 21598 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.08 | 0.78 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1B | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1C | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1D | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1E | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1F | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1G | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1H | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1I | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1J | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1K | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1L | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1M | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1N | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1O | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1P | 260 | 3497 | -2628 | 100 | 597 | -101 | 13174 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.90 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 2 | 260 | 5287 | -3797 | 138 | 809 | -132 | 20497 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | 3497 | -3171 | 100 | 597 | -134 | 12231 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | 5287 | -4619 | 137 | 809 | -177 | 19127 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.10 | 0.94 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | 3497 | -3713 | 100 | 597 | -167 | 11110 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.77 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | 5287 | -5442 | 137 | 809 | -222 | 17490 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.97 | 0.11 | 1.05 | 2.27 | 0.47 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 72**  NI 15518  NF 15525  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  6.6420  5.0184  18.6604  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1B | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1C | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1D | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1E | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1F | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1G | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1H | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1I | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1J | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1K | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1L | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1M | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1N | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1O | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 1P | 0 | 3405 | -7807 | 253 | 2246 | 400 | 11270 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.78 | 0.21 | 2.22 | 3.25 | 1.30 | 16.8 |
| 2 | 0 | 5158 | -11700 | 353 | 3591 | 564 | 17710 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.98 | 0.32 | 3.38 | 4.87 | 2.07 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1B | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1C | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1D | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1E | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1F | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1G | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1H | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1I | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1J | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1K | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1L | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1M | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1N | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1O | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 1P | 33 | 3405 | -8353 | 253 | 2246 | 317 | 8620 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.82 | 0.21 | 2.28 | 3.48 | 1.30 | 16.6 |
| 2 | 33 | 5158 | -12529 | 353 | 3591 | 449 | 13736 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.97 | 0.33 | 3.55 | 5.22 | 2.07 | 10.7 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 10.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1B | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1C | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1D | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1E | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1F | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1G | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1H | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1I | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1J | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1K | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1L | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1M | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1N | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1O | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 1P | 66 | 3405 | -8900 | 253 | 2246 | 234 | 5790 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.86 | 0.22 | 2.34 | 3.71 | 1.30 | 16.0 |
| 2 | 66 | 5158 | -13358 | 353 | 3591 | 333 | 9491 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.94 | 0.34 | 3.64 | 5.56 | 2.07 | 10.4 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 10.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1B | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1C | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1D | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1E | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1F | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1G | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1H | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1I | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1J | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1K | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1M | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1N | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1O | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 1P | 98 | 3405 | -9446 | 253 | 2246 | 151 | 2782 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.49 | 0.23 | 2.40 | 3.93 | 1.30 | 15.4 |
| 2 | 98 | 5158 | -14187 | 353 | 3591 | 218 | 4974 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.83 | 0.35 | 3.73 | 5.91 | 2.07 | 10.0 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 10.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1B | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1C | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1D | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1E | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1F | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1G | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1H | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1I | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1J | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1K | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1L | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1M | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1N | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1O | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 1P | 131 | 3405 | -9992 | 253 | 2246 | 68 | -405 | 9.24 | 4.62 | 4.62 | 9.24 | 1 | 0.19 | 0.23 | 2.46 | 4.16 | 1.30 | 14.9 |
| 2 | 131 | 5158 | -15016 | 353 | 3591 | 102 | 186 | 9.24 | 4.62 | 9.24 | 4.62 | 1 | 0.23 | 0.36 | 3.83 | 6.25 | 2.07 | 9.7 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 6.16 staffe= 2 d 8 / 9.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1B | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1C | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1D | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1E | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1F | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1G | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1H | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1I | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1J | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1K | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1L | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1M | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1N | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1O | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 1P | 164 | 3405 | -10538 | 253 | 2246 | -14 | -3772 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.61 | 0.24 | 2.52 | 4.39 | 1.30 | 14.4 |
| 2 | 164 | 5158 | -15845 | 353 | 3591 | -14 | -4875 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.82 | 0.37 | 3.92 | 6.60 | 2.07 | 9.4 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 9.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1B | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1C | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1D | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1E | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1F | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1G | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1H | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1I | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1J | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1K | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1L | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1M | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1N | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1O | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 1P | 197 | 3405 | -11085 | 253 | 2246 | -97 | -7317 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.71 | 0.25 | 2.58 | 4.62 | 1.30 | 13.9 |
| 2 | 197 | 5158 | -16674 | 353 | 3591 | -129 | -10206 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 1.00 | 0.38 | 4.01 | 6.94 | 2.07 | 9.1 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 9.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1B | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1C | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1D | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1E | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1F | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1G | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1H | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1I | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1J | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1K | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1L | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1M | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1N | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1O | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 1P | 230 | 3405 | -11631 | 253 | 2246 | -180 | -11042 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.25 | 2.64 | 4.84 | 1.30 | 13.5 |
| 2 | 230 | 5158 | -17503 | 353 | 3591 | -245 | -15810 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.89 | 0.39 | 4.10 | 7.29 | 2.07 | 8.8 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 8.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1B | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1C | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1D | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1E | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1G | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1H | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1I | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1J | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1K | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1L | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1M | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1N | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1O | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 1P | 262 | 3405 | -12177 | 253 | 2246 | -263 | -14946 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.26 | 2.70 | 5.07 | 1.30 | 11.2 |
| 2 | 262 | 5158 | -18332 | 353 | 3591 | -361 | -21685 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.99 | 0.40 | 4.19 | 7.63 | 2.07 | 8.5 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 8.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1B | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1C | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1D | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1E | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1F | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1G | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1H | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1I | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1J | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1K | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1L | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1M | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1N | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1O | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 1P | 295 | 3405 | -12724 | 253 | 2246 | -346 | -19028 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.85 | 0.26 | 2.76 | 5.30 | 1.30 | 11.2 |
| 2 | 295 | 5158 | -19161 | 353 | 3591 | -476 | -27832 | 4.62 | 9.24 | 6.16 | 12.32 | 2 | 0.95 | 0.41 | 4.28 | 7.98 | 2.07 | 8.3 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 8.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1B | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1C | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1D | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1E | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1F | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1G | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1H | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1I | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1J | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1K | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1L | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1M | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1N | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1O | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 1P | 328 | 3405 | -13270 | 253 | 2246 | -429 | -21299 | 4.62 | 9.24 | 6.16 | 9.24 | 2 | 0.95 | 0.27 | 2.82 | 5.53 | 1.30 | 11.2 |
| 2 | 328 | 5158 | -19990 | 353 | 3591 | -592 | -31252 | 4.62 | 9.24 | 7.70 | 13.85 | 2 | 0.94 | 0.42 | 4.37 | 8.32 | 2.07 | 8.1 |

apost= 1.54 aant= 6.16 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 99** NI 15521 NF 15513 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 11.1110 5.0184 20.9419 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1B | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1C | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1D | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1E | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1F | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1G | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1H | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1I | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1J | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1K | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1L | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1M | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1N | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1O | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 1P | 0 | -22 | 11730 | -274 | 114 | -311 | -17120 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.95 | 0.21 | 1.90 | 6.29 | 0.10 | 11.2 |
| 2 | 0 | 216 | 17030 | -390 | 168 | -438 | -23696 | 3.08 | 6.16 | 7.70 | 13.85 | 2 | 0.90 | 0.31 | 2.76 | 9.14 | 0.15 | 10.7 |

apost= -- aant= 3.08 ainf= 4.62 asup= 10.78 staffe= 2 d 8 / 10.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1B | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1C | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1D | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1E | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1F | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1H | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1I | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1J | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1K | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1L | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1M | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1N | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1O | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 1P | 33 | -22 | 11111 | -274 | 114 | -221 | -15146 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.84 | 0.20 | 1.81 | 5.96 | 0.10 | 11.2 |
| 2 | 33 | 216 | 16108 | -390 | 168 | -310 | -20834 | 3.08 | 6.16 | 6.16 | 12.32 | 2 | 0.88 | 0.29 | 2.62 | 8.64 | 0.15 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1B | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1C | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1D | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1E | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1F | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1G | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1H | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1I | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1J | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1K | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1L | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1M | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1N | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1O | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 1P | 65 | -22 | 10493 | -274 | 114 | -131 | -11615 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.96 | 0.19 | 1.71 | 5.63 | 0.10 | 11.2 |
| 2 | 65 | 216 | 15186 | -390 | 168 | -183 | -15720 | 3.08 | 6.16 | 4.62 | 9.24 | 2 | 0.88 | 0.28 | 2.48 | 8.15 | 0.15 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1B | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1C | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1D | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1E | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1F | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1G | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1H | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1I | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1J | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1K | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1L | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1M | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1N | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1O | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 1P | 98 | -22 | 9874 | -274 | 114 | -42 | -8285 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.91 | 0.18 | 1.62 | 5.30 | 0.10 | 18.3 |
| 2 | 98 | 216 | 14264 | -390 | 168 | -55 | -10907 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.26 | 2.34 | 7.65 | 0.15 | 12.6 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 12.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1B | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1C | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1D | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1E | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1F | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1G | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1H | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1I | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1J | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1K | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1L | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1M | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1N | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1O | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 1P | 131 | -22 | 9256 | -274 | 114 | 48 | -5158 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.17 | 1.53 | 4.97 | 0.10 | 19.1 |
| 2 | 131 | 216 | 13342 | -390 | 168 | 72 | -6396 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.71 | 0.25 | 2.20 | 7.16 | 0.15 | 13.5 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 13.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1B | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1C | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1D | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1E | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1F | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1G | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1H | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1I | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1J | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1K | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1L | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1M | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1N | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1O | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 1P | 163 | -22 | 8637 | -274 | 114 | 138 | -2234 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.16 | 1.43 | 4.63 | 0.10 | 19.1 |
| 2 | 163 | 216 | 12420 | -390 | 168 | 199 | -2186 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.36 | 0.23 | 2.06 | 6.66 | 0.15 | 14.4 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1B | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1C | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1D | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1E | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1F | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1G | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1H | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1I | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1J | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1K | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1L | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1M | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1N | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1O | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 1P | 196 | -22 | 8019 | -274 | 114 | 228 | 489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.15 | 1.34 | 4.30 | 0.10 | 19.1 |
| 2 | 196 | 216 | 11497 | -390 | 168 | 327 | 1722 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.21 | 1.92 | 6.17 | 0.15 | 15.5 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 15.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1B | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1C | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1D | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1E | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1F | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1G | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1H | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1I | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1J | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1K | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1L | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1M | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1N | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1O | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 1P | 229 | -22 | 7400 | -274 | 114 | 317 | 3009 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.49 | 0.14 | 1.24 | 3.97 | 0.10 | 19.1 |
| 2 | 229 | 216 | 10575 | -390 | 168 | 454 | 5329 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.88 | 0.20 | 1.78 | 5.67 | 0.15 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1B | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1C | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1D | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1E | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1F | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1G | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1H | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1I | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1J | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1K | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1L | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1M | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1N | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1O | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 1P | 261 | -22 | 6782 | -274 | 114 | 407 | 5327 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.13 | 1.15 | 3.64 | 0.10 | 19.1 |
| 2 | 261 | 216 | 9653 | -390 | 168 | 582 | 8634 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.95 | 0.18 | 1.64 | 5.18 | 0.15 | 18.4 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 18.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1B | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1C | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1D | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1E | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1F | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1G | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1H | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1I | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1J | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1K | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1L | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1M | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1N | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1O | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 1P | 294 | -22 | 6164 | -274 | 114 | 497 | 7443 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 1.06 | 3.31 | 0.10 | 19.1 |
| 2 | 294 | 216 | 8731 | -390 | 168 | 709 | 11638 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.96 | 0.17 | 1.38 | 4.68 | 0.15 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1B | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1C | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1D | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1E | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1F | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1G | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1H | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1I | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1J | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1K | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1L | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1M | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1N | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 1P | 327 | -22 | 5545 | -274 | 114 | 586 | 9357 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.77 | 0.11 | 0.89 | 0.00 | 0.00 | 19.1 |
| 2 | 327 | 216 | 7809 | -390 | 168 | 836 | 14340 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.96 | 0.15 | 1.18 | 4.19 | 0.15 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 98** NI 15513 NF 14914 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 12.0595 5.4468 22.3188 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -273 | -2353 | 493 | -74 | 878 | 9476 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.78 | 0.05 | 0.40 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -150 | -4158 | 686 | -77 | 1231 | 14560 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.96 | 0.08 | 0.61 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1B | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1C | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1D | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1E | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1F | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1G | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1H | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1I | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1J | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1K | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1L | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1M | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1N | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1O | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1P | 36 | -273 | -3068 | 493 | -74 | 703 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 2 | 36 | -150 | -5227 | 686 | -77 | 987 | 12894 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.85 | 0.10 | 0.75 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1B | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1C | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1D | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1E | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1F | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1G | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1H | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1I | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1J | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1K | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1L | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1M | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1N | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1O | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1P | 71 | -273 | -3783 | 493 | -74 | 527 | 7298 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 2 | 71 | -150 | -6296 | 686 | -77 | 744 | 10848 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.89 | 0.12 | 0.95 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1B | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1C | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1D | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1E | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1F | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1G | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1H | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1I | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1J | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1K | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1L | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1M | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1N | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 1O | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 107 | -273 | -4498 | 493 | -74 | 352 | 5828 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.77 | 0.00 | 0.00 | 19.1 |
| 2 | 107 | -150 | -7366 | 686 | -77 | 500 | 8423 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.92 | 0.13 | 1.19 | 3.95 | 0.07 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1B | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1C | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1D | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1E | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1F | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1G | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1H | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1I | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1J | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1K | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1L | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1M | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1N | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1O | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 1P | 142 | -273 | -5213 | 493 | -74 | 177 | 4104 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.66 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |
| 2 | 142 | -150 | -8435 | 686 | -77 | 256 | 5618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.15 | 1.36 | 4.53 | 0.07 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1B | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1C | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1D | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1E | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1F | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1G | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1H | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1I | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1J | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1K | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1L | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1M | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1N | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1O | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1P | 178 | -273 | -5928 | 493 | -74 | 2 | 2127 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.34 | 0.11 | 0.98 | 0.00 | 0.00 | 19.1 |
| 2 | 178 | -150 | -9504 | 686 | -77 | 13 | 2434 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.39 | 0.17 | 1.53 | 5.10 | 0.07 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1B | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1C | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1D | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1E | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1F | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1G | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1H | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1I | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1J | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1K | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1L | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1M | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1N | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1O | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 1P | 213 | -273 | -6644 | 493 | -74 | -173 | -105 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.03 | 0.12 | 1.09 | 3.56 | 0.07 | 19.1 |
| 2 | 213 | -150 | -10573 | 686 | -77 | -231 | -1130 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.18 | 0.19 | 1.69 | 5.67 | 0.07 | 17.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 17.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1B | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1C | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1D | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1E | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1F | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1G | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1H | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1I | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1J | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1K | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1L | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1M | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1N | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1O | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 1P | 249 | -273 | -7359 | 493 | -74 | -348 | -2590 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.13 | 1.20 | 3.95 | 0.07 | 19.1 |
| 2 | 249 | -150 | -11642 | 686 | -77 | -475 | -5073 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.82 | 0.21 | 1.85 | 6.25 | 0.07 | 15.8 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 15.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1B | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1C | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1D | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1E | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1F | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1G | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1H | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1I | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1K | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1L | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1M | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1N | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1O | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 1P | 284 | -273 | -8074 | 493 | -74 | -523 | -5330 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.86 | 0.15 | 1.31 | 4.33 | 0.07 | 19.1 |
| 2 | 284 | -150 | -12712 | 686 | -77 | -719 | -9396 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.77 | 0.23 | 2.01 | 6.82 | 0.07 | 14.5 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 14.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1B | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1C | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1D | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1E | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1F | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1G | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1H | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1I | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1J | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1K | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1L | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1M | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1N | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1O | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 1P | 320 | -273 | -8789 | 493 | -74 | -698 | -8323 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.90 | 0.16 | 1.42 | 4.72 | 0.07 | 11.2 |
| 2 | 320 | -150 | -13781 | 686 | -77 | -962 | -14098 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.93 | 0.25 | 2.17 | 7.39 | 0.07 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1B | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1C | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1D | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1E | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1F | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1G | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1H | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1I | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1J | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1K | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1L | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1M | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1N | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1O | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 1P | 355 | -273 | -9504 | 493 | -74 | -873 | -11570 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.17 | 1.53 | 5.10 | 0.07 | 11.2 |
| 2 | 355 | -150 | -14850 | 686 | -77 | -1206 | -19180 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.92 | 0.26 | 2.34 | 7.97 | 0.07 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 100**  NI 15502  NF 16248  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.0000  6.1200  16.1200  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1B | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1C | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1D | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1E | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1F | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1G | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1H | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1I | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1J | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1K | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1L | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1M | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1N | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1O | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 1P | 0 | -6002 | 2566 | 162 | -323 | 234 | -1358 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.12 | 0.14 | 1.48 | 1.93 | 0.50 | 9.3 |
| 2 | 0 | -8539 | 3829 | 225 | -394 | 321 | -1752 | 4.62 | 3.08 | 3.08 | 4.62 | 5 | 0.15 | 0.18 | 2.11 | 2.89 | 0.61 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1B | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1C | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1D | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1E | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1F | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1G | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1H | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1I | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1J | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1L | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1M | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1N | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1O | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 1P | 41 | -6002 | 2007 | 162 | -323 | 168 | -423 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.05 | 0.12 | 1.33 | 1.51 | 0.50 | 9.3 |
| 2 | 41 | -8539 | 2923 | 225 | -394 | 229 | -373 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.06 | 0.16 | 1.83 | 2.20 | 0.61 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1B | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1C | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1D | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1E | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1F | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1G | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1H | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1I | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1J | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1K | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1L | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1M | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1N | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1O | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 1P | 82 | -6002 | 1449 | 162 | -323 | 102 | 283 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.11 | 1.05 | 1.09 | 0.50 | 22.3 |
| 2 | 82 | -8539 | 2016 | 225 | -394 | 137 | 636 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.07 | 0.13 | 1.30 | 1.52 | 0.61 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1B | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1C | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1D | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1E | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1F | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1G | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1H | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1I | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1J | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1K | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1L | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1M | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1N | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1O | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 1P | 123 | -6002 | 890 | 162 | -323 | 36 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.09 | 0.94 | 0.00 | 0.00 | 22.3 |
| 2 | 123 | -8539 | 1110 | 225 | -394 | 45 | 1275 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.10 | 0.11 | 1.14 | 0.84 | 0.61 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1B | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1C | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1D | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1E | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1F | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1G | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1H | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1I | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1J | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1K | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1L | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1M | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1N | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1O | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1P | 163 | -6002 | 331 | 162 | -323 | -30 | 1010 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.84 | 0.00 | 0.00 | 22.3 |
| 2 | 163 | -8539 | 203 | 225 | -394 | -47 | 1543 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.09 | 1.00 | 0.23 | 0.61 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 204 | -6002 | -227 | 162 | -323 | -96 | 1032 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 204 | -8539 | -703 | 225 | -394 | -139 | 1441 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.12 | 0.10 | 1.07 | 0.53 | 0.61 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1B | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1C | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1D | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1F | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1G | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1H | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1I | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1J | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1K | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1L | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1M | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1N | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1O | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1P | 245 | -6002 | -786 | 162 | -323 | -162 | 825 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.07 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 2 | 245 | -8539 | -1609 | 225 | -394 | -231 | 969 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.09 | 0.12 | 1.23 | 1.21 | 0.61 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1B | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1C | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1D | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1E | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1F | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1G | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1H | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1I | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1J | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1K | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1L | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1M | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1N | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1O | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 1P | 286 | -6002 | -1345 | 162 | -323 | -228 | 390 | 3.08 | 4.62 | 4.62 | 3.08 | 5 | 0.05 | 0.10 | 1.03 | 1.01 | 0.50 | 22.3 |
| 2 | 286 | -8539 | -2516 | 225 | -394 | -323 | 126 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.06 | 0.15 | 1.39 | 1.90 | 0.61 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1B | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1C | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1D | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1E | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1F | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1G | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1H | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1I | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1J | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1K | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1L | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1M | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1N | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1O | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 1P | 327 | -6002 | -1904 | 162 | -323 | -294 | -274 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.05 | 0.12 | 1.30 | 1.44 | 0.50 | 22.3 |
| 2 | 327 | -8539 | -3422 | 225 | -394 | -415 | -1087 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.09 | 0.17 | 1.98 | 2.58 | 0.61 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1B | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1C | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1D | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1E | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1F | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1G | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1H | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1I | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1J | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1K | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1L | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1M | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1N | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1O | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 1P | 368 | -6002 | -2462 | 162 | -323 | -361 | -1166 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.13 | 1.45 | 1.86 | 0.50 | 9.3 |
| 2 | 368 | -8539 | -4329 | 225 | -394 | -507 | -2671 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.20 | 2.26 | 3.26 | 0.61 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1B | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1C | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1D | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1E | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1F | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1G | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1H | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1I | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1J | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1K | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1L | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1M | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1N | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1O | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 1P | 409 | -6002 | -3021 | 162 | -323 | -427 | -2286 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.30 | 0.15 | 1.60 | 2.28 | 0.50 | 9.3 |
| 2 | 409 | -8539 | -5235 | 225 | -394 | -599 | -4625 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.74 | 0.22 | 2.53 | 3.95 | 0.61 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **54** Tabella: **Travi scala**
Descrizione: **Travi scala 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 19** NI 17513 NF 17581 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | 3669 | 447 | 0 | 407 | -1466 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1B | 0 | -0 | 4109 | 447 | 0 | 407 | -2160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.95 | 0.22 | 1.20 | 5.73 | 0.00 | 5.0 |
| 1C | 0 | -0 | 3669 | -78 | 0 | -155 | -1466 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1D | 0 | -0 | 4109 | -78 | 0 | -155 | -2160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.95 | 0.22 | 1.20 | 5.73 | 0.00 | 5.0 |
| 1E | 0 | -0 | 3669 | 447 | 0 | 407 | -1466 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1F | 0 | -0 | 4109 | 447 | 0 | 407 | -2160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.95 | 0.22 | 1.20 | 5.73 | 0.00 | 5.0 |
| 1G | 0 | -0 | 3669 | -78 | 0 | -155 | -1466 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1H | 0 | -0 | 4109 | -78 | 0 | -155 | -2160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.95 | 0.22 | 1.20 | 5.73 | 0.00 | 5.0 |
| 1I | 0 | -0 | 3381 | 791 | 0 | 776 | -1010 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 4397 | 791 | 0 | 776 | -2616 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.78 | 0.23 | 1.13 | 6.13 | 0.00 | 5.0 |
| 1K | 0 | -0 | 3381 | -422 | 0 | -524 | -1010 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 4397 | -422 | 0 | -524 | -2616 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.78 | 0.23 | 1.13 | 6.13 | 0.00 | 5.0 |
| 1M | 0 | -0 | 3381 | 791 | 0 | 776 | -1010 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 4397 | 791 | 0 | 776 | -2616 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.78 | 0.23 | 1.13 | 6.13 | 0.00 | 5.0 |
| 1O | 0 | -0 | 3381 | -422 | 0 | -524 | -1010 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 4397 | -422 | 0 | -524 | -2616 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.78 | 0.23 | 1.13 | 6.13 | 0.00 | 5.0 |
| 2 | 0 | -0 | 6293 | 347 | 0 | 226 | -2859 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.85 | 0.33 | 1.61 | 8.78 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | |
| 1A | 10 | -0 | 3501 | 447 | 0 | 363 | -1111 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1B | 10 | -0 | 3940 | 447 | 0 | 363 | -1762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.21 | 1.16 | 5.50 | 0.00 | 5.0 |
| 1C | 10 | -0 | 3501 | -78 | 0 | -147 | -1111 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1D | 10 | -0 | 3940 | -78 | 0 | -147 | -1762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.21 | 1.16 | 5.50 | 0.00 | 5.0 |
| 1E | 10 | -0 | 3501 | 447 | 0 | 363 | -1111 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1F | 10 | -0 | 3940 | 447 | 0 | 363 | -1762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.21 | 1.16 | 5.50 | 0.00 | 5.0 |
| 1G | 10 | -0 | 3501 | -78 | 0 | -147 | -1111 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1H | 10 | -0 | 3940 | -78 | 0 | -147 | -1762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.21 | 1.16 | 5.50 | 0.00 | 5.0 |
| 1I | 10 | -0 | 3212 | 791 | 0 | 698 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1J | 10 | -0 | 4228 | 791 | 0 | 698 | -2189 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.22 | 1.24 | 5.90 | 0.00 | 5.0 |
| 1K | 10 | -0 | 3212 | -422 | 0 | -482 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1L | 10 | -0 | 4228 | -422 | 0 | -482 | -2189 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.22 | 1.24 | 5.90 | 0.00 | 5.0 |
| 1M | 10 | -0 | 3212 | 791 | 0 | 698 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1N | 10 | -0 | 4228 | 791 | 0 | 698 | -2189 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.22 | 1.24 | 5.90 | 0.00 | 5.0 |
| 1O | 10 | -0 | 3212 | -422 | 0 | -482 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1P | 10 | -0 | 4228 | -422 | 0 | -482 | -2189 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.22 | 1.24 | 5.90 | 0.00 | 5.0 |
| 2 | 10 | -0 | 6015 | 347 | 0 | 191 | -2250 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.99 | 0.32 | 1.76 | 8.39 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | |
| 1A | 20 | -0 | 3332 | 447 | 0 | 319 | -773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1B | 20 | -0 | 3771 | 447 | 0 | 319 | -1380 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.11 | 5.26 | 0.00 | 5.0 |
| 1C | 20 | -0 | 3332 | -78 | 0 | -139 | -773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1D | 20 | -0 | 3771 | -78 | 0 | -139 | -1380 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.11 | 5.26 | 0.00 | 5.0 |
| 1E | 20 | -0 | 3332 | 447 | 0 | 319 | -773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1F | 20 | -0 | 3771 | 447 | 0 | 319 | -1380 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.11 | 5.26 | 0.00 | 5.0 |
| 1G | 20 | -0 | 3332 | -78 | 0 | -139 | -773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1H | 20 | -0 | 3771 | -78 | 0 | -139 | -1380 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.11 | 5.26 | 0.00 | 5.0 |
| 1I | 20 | -0 | 3044 | 791 | 0 | 620 | -374 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1J | 20 | -0 | 4060 | 791 | 0 | 620 | -1779 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.21 | 1.19 | 5.66 | 0.00 | 5.0 |
| 1K | 20 | -0 | 3044 | -422 | 0 | -440 | -374 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1L | 20 | -0 | 4060 | -422 | 0 | -440 | -1779 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.21 | 1.19 | 5.66 | 0.00 | 5.0 |
| 1M | 20 | -0 | 3044 | 791 | 0 | 620 | -374 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1N | 20 | -0 | 4060 | 791 | 0 | 620 | -1779 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.21 | 1.19 | 5.66 | 0.00 | 5.0 |
| 1O | 20 | -0 | 3044 | -422 | 0 | -440 | -374 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1P | 20 | -0 | 4060 | -422 | 0 | -440 | -1779 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.21 | 1.19 | 5.66 | 0.00 | 5.0 |
| 2 | 20 | -0 | 5738 | 347 | 0 | 157 | -1668 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.73 | 0.30 | 1.68 | 8.00 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | |
| 1A | 30 | -0 | 3163 | 447 | 0 | 274 | -451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1B | 30 | -0 | 3602 | 447 | 0 | 274 | -1015 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.19 | 1.06 | 5.03 | 0.00 | 5.0 |
| 1C | 30 | -0 | 3163 | -78 | 0 | -132 | -451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1D | 30 | -0 | 3602 | -78 | 0 | -132 | -1015 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.19 | 1.06 | 5.03 | 0.00 | 5.0 |
| 1E | 30 | -0 | 3163 | 447 | 0 | 274 | -451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1F | 30 | -0 | 3602 | 447 | 0 | 274 | -1015 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.19 | 1.06 | 5.03 | 0.00 | 5.0 |
| 1G | 30 | -0 | 3163 | -78 | 0 | -132 | -451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1H | 30 | -0 | 3602 | -78 | 0 | -132 | -1015 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.19 | 1.06 | 5.03 | 0.00 | 5.0 |
| 1I | 30 | -0 | 2875 | 791 | 0 | 541 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.15 | 0.84 | 0.00 | 0.00 | 5.0 |
| 1J | 30 | -0 | 3891 | 791 | 0 | 541 | -1385 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.14 | 5.43 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 30 | -0 | 2875 | -422 | 0 | -399 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.84 | 0.00 | 0.00 | 5.0 |
| 1L | 30 | -0 | 3891 | -422 | 0 | -399 | -1385 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.14 | 5.43 | 0.00 | 5.0 |
| 1M | 30 | -0 | 2875 | 791 | 0 | 541 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.15 | 0.84 | 0.00 | 0.00 | 5.0 |
| 1N | 30 | -0 | 3891 | 791 | 0 | 541 | -1385 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.14 | 5.43 | 0.00 | 5.0 |
| 1O | 30 | -0 | 2875 | -422 | 0 | -399 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.84 | 0.00 | 0.00 | 5.0 |
| 1P | 30 | -0 | 3891 | -422 | 0 | -399 | -1385 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.20 | 1.14 | 5.43 | 0.00 | 5.0 |
| 2 | 30 | -0 | 5460 | 347 | 0 | 123 | -1114 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.29 | 1.60 | 7.62 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | -0 | 2995 | 447 | 0 | 230 | -146 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1B | 40 | -0 | 3434 | 447 | 0 | 230 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.18 | 1.01 | 4.79 | 0.00 | 16.0 |
| 1C | 40 | -0 | 2995 | -78 | 0 | -124 | -146 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1D | 40 | -0 | 3434 | -78 | 0 | -124 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.18 | 1.01 | 4.79 | 0.00 | 16.0 |
| 1E | 40 | -0 | 2995 | 447 | 0 | 230 | -146 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1F | 40 | -0 | 3434 | 447 | 0 | 230 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.18 | 1.01 | 4.79 | 0.00 | 16.0 |
| 1G | 40 | -0 | 2995 | -78 | 0 | -124 | -146 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1H | 40 | -0 | 3434 | -78 | 0 | -124 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.18 | 1.01 | 4.79 | 0.00 | 16.0 |
| 1I | 40 | -0 | 2706 | 791 | 0 | 463 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1J | 40 | -0 | 3722 | 791 | 0 | 463 | -1008 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.20 | 1.09 | 5.19 | 0.00 | 16.0 |
| 1K | 40 | -0 | 2706 | -422 | 0 | -357 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1L | 40 | -0 | 3722 | -422 | 0 | -357 | -1008 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.20 | 1.09 | 5.19 | 0.00 | 16.0 |
| 1M | 40 | -0 | 2706 | 791 | 0 | 463 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1N | 40 | -0 | 3722 | 791 | 0 | 463 | -1008 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.20 | 1.09 | 5.19 | 0.00 | 16.0 |
| 1O | 40 | -0 | 2706 | -422 | 0 | -357 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1P | 40 | -0 | 3722 | -422 | 0 | -357 | -1008 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.20 | 1.09 | 5.19 | 0.00 | 16.0 |
| 2 | 40 | -0 | 5183 | 347 | 0 | 88 | -587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.27 | 1.52 | 7.23 | 0.00 | 13.9 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 13.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 50 | -0 | 2826 | 447 | 0 | 186 | 142 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1B | 50 | -0 | 3265 | 447 | 0 | 186 | -335 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1C | 50 | -0 | 2826 | -78 | 0 | -116 | 142 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1D | 50 | -0 | 3265 | -78 | 0 | -116 | -335 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1E | 50 | -0 | 2826 | 447 | 0 | 186 | 142 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1F | 50 | -0 | 3265 | 447 | 0 | 186 | -335 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1G | 50 | -0 | 2826 | -78 | 0 | -116 | 142 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1H | 50 | -0 | 3265 | -78 | 0 | -116 | -335 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1I | 50 | -0 | 2538 | 791 | 0 | 385 | 455 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1J | 50 | -0 | 3553 | 791 | 0 | 385 | -648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.19 | 1.04 | 4.96 | 0.00 | 16.0 |
| 1K | 50 | -0 | 2538 | -422 | 0 | -315 | 455 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1L | 50 | -0 | 3553 | -422 | 0 | -315 | -648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.19 | 1.04 | 4.96 | 0.00 | 16.0 |
| 1M | 50 | -0 | 2538 | 791 | 0 | 385 | 455 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1N | 50 | -0 | 3553 | 791 | 0 | 385 | -648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.19 | 1.04 | 4.96 | 0.00 | 16.0 |
| 1O | 50 | -0 | 2538 | -422 | 0 | -315 | 455 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1P | 50 | -0 | 3553 | -422 | 0 | -315 | -648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.19 | 1.04 | 4.96 | 0.00 | 16.0 |
| 2 | 50 | -0 | 4905 | 347 | 0 | 54 | -88 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.26 | 1.44 | 6.84 | 0.00 | 14.7 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -0 | 2657 | 447 | 0 | 142 | 413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1B | 59 | -0 | 3096 | 447 | 0 | 142 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1C | 59 | -0 | 2657 | -78 | 0 | -109 | 413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1D | 59 | -0 | 3096 | -78 | 0 | -109 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1E | 59 | -0 | 2657 | 447 | 0 | 142 | 413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1F | 59 | -0 | 3096 | 447 | 0 | 142 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1G | 59 | -0 | 2657 | -78 | 0 | -109 | 413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1H | 59 | -0 | 3096 | -78 | 0 | -109 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1I | 59 | -0 | 2369 | 791 | 0 | 306 | 698 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1J | 59 | -0 | 3385 | 791 | 0 | 306 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.18 | 0.99 | 0.00 | 0.00 | 16.0 |
| 1K | 59 | -0 | 2369 | -422 | 0 | -273 | 698 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1L | 59 | -0 | 3385 | -422 | 0 | -273 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.18 | 0.99 | 0.00 | 0.00 | 16.0 |
| 1M | 59 | -0 | 2369 | 791 | 0 | 306 | 698 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1N | 59 | -0 | 3385 | 791 | 0 | 306 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.18 | 0.99 | 0.00 | 0.00 | 16.0 |
| 1O | 59 | -0 | 2369 | -422 | 0 | -273 | 698 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1P | 59 | -0 | 3385 | -422 | 0 | -273 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.18 | 0.99 | 0.00 | 0.00 | 16.0 |
| 2 | 59 | -0 | 4627 | 347 | 0 | 19 | 384 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.24 | 1.36 | 6.46 | 0.00 | 15.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 15.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -0 | 2489 | 447 | 0 | 98 | 668 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1B | 69 | -0 | 2928 | 447 | 0 | 98 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1C | 69 | -0 | 2489 | -78 | 0 | -101 | 668 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1D | 69 | -0 | 2928 | -78 | 0 | -101 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1E | 69 | -0 | 2489 | 447 | 0 | 98 | 668 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1F | 69 | -0 | 2928 | 447 | 0 | 98 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1G | 69 | -0 | 2489 | -78 | 0 | -101 | 668 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1H | 69 | -0 | 2928 | -78 | 0 | -101 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1I | 69 | -0 | 2200 | 791 | 0 | 228 | 924 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1J | 69 | -0 | 3216 | 791 | 0 | 228 | 22 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1K | 69 | -0 | 2200 | -422 | 0 | -231 | 924 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1L | 69 | -0 | 3216 | -422 | 0 | -231 | 22 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1M | 69 | -0 | 2200 | 791 | 0 | 228 | 924 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1N | 69 | -0 | 3216 | 791 | 0 | 228 | 22 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1O | 69 | -0 | 2200 | -422 | 0 | -231 | 924 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1P | 69 | -0 | 3216 | -422 | 0 | -231 | 22 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 2 | 69 | -0 | 4350 | 347 | 0 | -15 | 829 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.23 | 1.28 | 6.07 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -0 | 2320 | 447 | 0 | 53 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1B | 79 | -0 | 2759 | 447 | 0 | 53 | 559 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1C | 79 | -0 | 2320 | -78 | 0 | -93 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1D | 79 | -0 | 2759 | -78 | 0 | -93 | 559 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.81 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 79 | -0 | 2320 | 447 | 0 | 53 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1F | 79 | -0 | 2759 | 447 | 0 | 53 | 559 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1G | 79 | -0 | 2320 | -78 | 0 | -93 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1H | 79 | -0 | 2759 | -78 | 0 | -93 | 559 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1I | 79 | -0 | 2031 | 791 | 0 | 150 | 1133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1J | 79 | -0 | 3047 | 791 | 0 | 150 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1K | 79 | -0 | 2031 | -422 | 0 | -190 | 1133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1L | 79 | -0 | 3047 | -422 | 0 | -190 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1M | 79 | -0 | 2031 | 791 | 0 | 150 | 1133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1N | 79 | -0 | 3047 | 791 | 0 | 150 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1O | 79 | -0 | 2031 | -422 | 0 | -190 | 1133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1P | 79 | -0 | 3047 | -422 | 0 | -190 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |
| 2 | 79 | -0 | 4072 | 347 | 0 | -49 | 1246 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.21 | 1.19 | 5.68 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 89 | -0 | 2151 | 447 | 0 | 9 | 1127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1B | 89 | -0 | 2590 | 447 | 0 | 9 | 824 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1C | 89 | -0 | 2151 | -78 | 0 | -86 | 1127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1D | 89 | -0 | 2590 | -78 | 0 | -86 | 824 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1E | 89 | -0 | 2151 | 447 | 0 | 9 | 1127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1F | 89 | -0 | 2590 | 447 | 0 | 9 | 824 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1G | 89 | -0 | 2151 | -78 | 0 | -86 | 1127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1H | 89 | -0 | 2590 | -78 | 0 | -86 | 824 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1I | 89 | -0 | 1863 | 791 | 0 | 72 | 1326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1J | 89 | -0 | 2879 | 791 | 0 | 72 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1K | 89 | -0 | 1863 | -422 | 0 | -148 | 1326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1L | 89 | -0 | 2879 | -422 | 0 | -148 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1M | 89 | -0 | 1863 | 791 | 0 | 72 | 1326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1N | 89 | -0 | 2879 | 791 | 0 | 72 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1O | 89 | -0 | 1863 | -422 | 0 | -148 | 1326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1P | 89 | -0 | 2879 | -422 | 0 | -148 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 2 | 89 | -0 | 3795 | 347 | 0 | -84 | 1635 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.20 | 1.11 | 5.29 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 99 | -0 | 1982 | 447 | 0 | -35 | 1332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1B | 99 | -0 | 2422 | 447 | 0 | -35 | 1072 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1C | 99 | -0 | 1982 | -78 | 0 | -78 | 1332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1D | 99 | -0 | 2422 | -78 | 0 | -78 | 1072 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1E | 99 | -0 | 1982 | 447 | 0 | -35 | 1332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1F | 99 | -0 | 2422 | 447 | 0 | -35 | 1072 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1G | 99 | -0 | 1982 | -78 | 0 | -78 | 1332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1H | 99 | -0 | 2422 | -78 | 0 | -78 | 1072 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1I | 99 | -0 | 1694 | 791 | 0 | -7 | 1502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1J | 99 | -0 | 2710 | 791 | 0 | -7 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1K | 99 | -0 | 1694 | -422 | 0 | -106 | 1502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1L | 99 | -0 | 2710 | -422 | 0 | -106 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1M | 99 | -0 | 1694 | 791 | 0 | -7 | 1502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1N | 99 | -0 | 2710 | 791 | 0 | -7 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1O | 99 | -0 | 1694 | -422 | 0 | -106 | 1502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1P | 99 | -0 | 2710 | -422 | 0 | -106 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 2 | 99 | -0 | 3517 | 347 | 0 | -118 | 1997 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.18 | 1.03 | 4.91 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20** NI 17581 NF 17521 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 21 | 315 | 0 | 261 | 1264 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1B | 0 | -0 | 692 | 315 | 0 | 261 | 808 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1C | 0 | -0 | 21 | -251 | 0 | -222 | 1264 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.01 | 0.09 | 0.00 | 0.00 | 16.0 |
| 1D | 0 | -0 | 692 | -251 | 0 | -222 | 808 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1E | 0 | -0 | 21 | 315 | 0 | 261 | 1264 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1F | 0 | -0 | 692 | 315 | 0 | 261 | 808 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1G | 0 | -0 | 21 | -251 | 0 | -222 | 1264 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.01 | 0.09 | 0.00 | 0.00 | 16.0 |
| 1H | 0 | -0 | 692 | -251 | 0 | -222 | 808 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1I | 0 | -0 | -419 | 686 | 0 | 579 | 1564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1J | 0 | -0 | 1132 | 686 | 0 | 579 | 508 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1K | 0 | -0 | -419 | -623 | 0 | -540 | 1564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1L | 0 | -0 | 1132 | -623 | 0 | -540 | 508 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1M | 0 | -0 | -419 | 686 | 0 | 579 | 1564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1N | 0 | -0 | 1132 | 686 | 0 | 579 | 508 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1O | 0 | -0 | -419 | -623 | 0 | -540 | 1564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1P | 0 | -0 | 1132 | -623 | 0 | -540 | 508 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 2 | 0 | -0 | 491 | 43 | 0 | 20 | 1765 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.03 | 0.14 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 21 | -0 | -328 | 315 | 0 | 197 | 1233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1B | 21 | -0 | 342 | 315 | 0 | 197 | 914 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1C | 21 | -0 | -328 | -251 | 0 | -171 | 1233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1D | 21 | -0 | 342 | -251 | 0 | -171 | 914 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1E | 21 | -0 | -328 | 315 | 0 | 197 | 1233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 21 | -0 | 342 | 315 | 0 | 197 | 914 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1G | 21 | -0 | -328 | -251 | 0 | -171 | 1233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1H | 21 | -0 | 342 | -251 | 0 | -171 | 914 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1I | 21 | -0 | -768 | 686 | 0 | 438 | 1442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.63 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1J | 21 | -0 | 782 | 686 | 0 | 438 | 704 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1K | 21 | -0 | -768 | -623 | 0 | -412 | 1442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.63 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1L | 21 | -0 | 782 | -623 | 0 | -412 | 704 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1M | 21 | -0 | -768 | 686 | 0 | 438 | 1442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.63 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1N | 21 | -0 | 782 | 686 | 0 | 438 | 704 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1O | 21 | -0 | -768 | -623 | 0 | -412 | 1442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.63 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1P | 21 | -0 | 782 | -623 | 0 | -412 | 704 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 2 | 21 | -0 | -83 | 43 | 0 | 11 | 1807 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.00 | 0.02 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | -677 | 315 | 0 | 132 | 1130 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1B | 41 | -0 | -7 | 315 | 0 | 132 | 948 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1C | 41 | -0 | -677 | -251 | 0 | -119 | 1130 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1D | 41 | -0 | -7 | -251 | 0 | -119 | 948 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.01 | 0.09 | 0.00 | 0.00 | 16.0 |
| 1E | 41 | -0 | -677 | 315 | 0 | 132 | 1130 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1F | 41 | -0 | -7 | 315 | 0 | 132 | 948 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1G | 41 | -0 | -677 | -251 | 0 | -119 | 1130 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1H | 41 | -0 | -7 | -251 | 0 | -119 | 948 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.01 | 0.09 | 0.00 | 0.00 | 16.0 |
| 1I | 41 | -0 | -1118 | 686 | 0 | 298 | 1249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1J | 41 | -0 | 433 | 686 | 0 | 298 | 829 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1K | 41 | -0 | -1118 | -623 | 0 | -285 | 1249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1L | 41 | -0 | 433 | -623 | 0 | -285 | 829 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1M | 41 | -0 | -1118 | 686 | 0 | 298 | 1249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1N | 41 | -0 | 433 | 686 | 0 | 298 | 829 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1O | 41 | -0 | -1118 | -623 | 0 | -285 | 1249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |
| 1P | 41 | -0 | 433 | -623 | 0 | -285 | 829 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 2 | 41 | -0 | -658 | 43 | 0 | 2 | 1731 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | -1027 | 315 | 0 | 68 | 955 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1B | 62 | -0 | -357 | 315 | 0 | 68 | 911 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1C | 62 | -0 | -1027 | -251 | 0 | -68 | 955 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1D | 62 | -0 | -357 | -251 | 0 | -68 | 911 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1E | 62 | -0 | -1027 | 315 | 0 | 68 | 955 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1F | 62 | -0 | -357 | 315 | 0 | 68 | 911 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1G | 62 | -0 | -1027 | -251 | 0 | -68 | 955 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1H | 62 | -0 | -357 | -251 | 0 | -68 | 911 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1I | 62 | -0 | -1467 | 686 | 0 | 157 | 984 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1J | 62 | -0 | 83 | 686 | 0 | 157 | 882 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1K | 62 | -0 | -1467 | -623 | 0 | -157 | 984 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1L | 62 | -0 | 83 | -623 | 0 | -157 | 882 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1M | 62 | -0 | -1467 | 686 | 0 | 157 | 984 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1N | 62 | -0 | 83 | 686 | 0 | 157 | 882 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1O | 62 | -0 | -1467 | -623 | 0 | -157 | 984 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1P | 62 | -0 | 83 | -623 | 0 | -157 | 882 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 2 | 62 | -0 | -1233 | 43 | 0 | -7 | 1537 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -0 | -1376 | 315 | 0 | 3 | 709 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.07 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1B | 82 | -0 | -706 | 315 | 0 | 3 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1C | 82 | -0 | -1376 | -251 | 0 | -16 | 709 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.07 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1D | 82 | -0 | -706 | -251 | 0 | -16 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1E | 82 | -0 | -1376 | 315 | 0 | 3 | 709 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.07 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1F | 82 | -0 | -706 | 315 | 0 | 3 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1G | 82 | -0 | -1376 | -251 | 0 | -16 | 709 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.07 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1H | 82 | -0 | -706 | -251 | 0 | -16 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1I | 82 | -0 | -1816 | 686 | 0 | 16 | 648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.10 | 0.53 | 0.00 | 0.00 | 16.0 |
| 1J | 82 | -0 | -266 | 686 | 0 | 16 | 863 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1K | 82 | -0 | -1816 | -623 | 0 | -29 | 648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.10 | 0.53 | 0.00 | 0.00 | 16.0 |
| 1L | 82 | -0 | -266 | -623 | 0 | -29 | 863 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1M | 82 | -0 | -1816 | 686 | 0 | 16 | 648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.10 | 0.53 | 0.00 | 0.00 | 16.0 |
| 1N | 82 | -0 | -266 | 686 | 0 | 16 | 863 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1O | 82 | -0 | -1816 | -623 | 0 | -29 | 648 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.10 | 0.53 | 0.00 | 0.00 | 16.0 |
| 1P | 82 | -0 | -266 | -623 | 0 | -29 | 863 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 2 | 82 | -0 | -1808 | 43 | 0 | -15 | 1226 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.09 | 0.53 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | -1726 | 315 | 0 | -61 | 391 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1B | 103 | -0 | -1056 | 315 | 0 | -61 | 621 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1C | 103 | -0 | -1726 | -251 | 0 | 35 | 391 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1D | 103 | -0 | -1056 | -251 | 0 | 35 | 621 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1E | 103 | -0 | -1726 | 315 | 0 | -61 | 391 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1F | 103 | -0 | -1056 | 315 | 0 | -61 | 621 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1G | 103 | -0 | -1726 | -251 | 0 | 35 | 391 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1H | 103 | -0 | -1056 | -251 | 0 | 35 | 621 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1I | 103 | -0 | -2166 | 686 | 0 | -124 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1J | 103 | -0 | -616 | 686 | 0 | -124 | 773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1K | 103 | -0 | -2166 | -623 | 0 | 99 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1L | 103 | -0 | -616 | -623 | 0 | 99 | 773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1M | 103 | -0 | -2166 | 686 | 0 | -124 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1N | 103 | -0 | -616 | 686 | 0 | -124 | 773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.04 | 0.25 | 0.00 | 0.00 | 16.0 |
| 1O | 103 | -0 | -2166 | -623 | 0 | 99 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1P | 103 | -0 | -616 | -623 | 0 | 99 | 773 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.03 | 0.23 | 0.00 | 0.00 | 16.0 |
| 2 | 103 | -0 | -2382 | 43 | 0 | -24 | 796 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.13 | 0.70 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -0 | -2075 | 315 | 0 | -125 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.14 | 0.04 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1B | 123 | -0 | -1405 | 315 | 0 | -125 | 369 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1C | 123 | -0 | -2075 | -251 | 0 | 87 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.14 | 0.00 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1D | 123 | -0 | -1405 | -251 | 0 | 87 | 369 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1E | 123 | -0 | -2075 | 315 | 0 | -125 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.14 | 0.04 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1F | 123 | -0 | -1405 | 315 | 0 | -125 | 369 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1G | 123 | -0 | -2075 | -251 | 0 | 87 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.14 | 0.00 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1H | 123 | -0 | -1405 | -251 | 0 | 87 | 369 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1I | 123 | -0 | -2515 | 686 | 0 | -265 | -241 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1J | 123 | -0 | -965 | 686 | 0 | -265 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1K | 123 | -0 | -2515 | -623 | 0 | 226 | -241 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1L | 123 | -0 | -965 | -623 | 0 | 226 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1M | 123 | -0 | -2515 | 686 | 0 | -265 | -241 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1N | 123 | -0 | -965 | 686 | 0 | -265 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1O | 123 | -0 | -2515 | -623 | 0 | 226 | -241 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1P | 123 | -0 | -965 | -623 | 0 | 226 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 2 | 123 | -0 | -2957 | 43 | 0 | -33 | 249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.16 | 0.87 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | -0 | -2425 | 315 | 0 | -190 | -460 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1B | 144 | -0 | -1755 | 315 | 0 | -190 | 45 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1C | 144 | -0 | -2425 | -251 | 0 | 138 | -460 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1D | 144 | -0 | -1755 | -251 | 0 | 138 | 45 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1E | 144 | -0 | -2425 | 315 | 0 | -190 | -460 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1F | 144 | -0 | -1755 | 315 | 0 | -190 | 45 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1G | 144 | -0 | -2425 | -251 | 0 | 138 | -460 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1H | 144 | -0 | -1755 | -251 | 0 | 138 | 45 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1I | 144 | -0 | -2865 | 686 | 0 | -406 | -792 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1J | 144 | -0 | -1314 | 686 | 0 | -406 | 377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1K | 144 | -0 | -2865 | -623 | 0 | 354 | -792 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1L | 144 | -0 | -1314 | -623 | 0 | 354 | 377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1M | 144 | -0 | -2865 | 686 | 0 | -406 | -792 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1N | 144 | -0 | -1314 | 686 | 0 | -406 | 377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1O | 144 | -0 | -2865 | -623 | 0 | 354 | -792 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1P | 144 | -0 | -1314 | -623 | 0 | 354 | 377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 2 | 144 | -0 | -3532 | 43 | 0 | -42 | -416 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.19 | 1.04 | 4.93 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | -0 | -2774 | 315 | 0 | -254 | -993 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1B | 164 | -0 | -2104 | 315 | 0 | -254 | -350 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1C | 164 | -0 | -2774 | -251 | 0 | 190 | -993 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1D | 164 | -0 | -2104 | -251 | 0 | 190 | -350 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1E | 164 | -0 | -2774 | 315 | 0 | -254 | -993 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1F | 164 | -0 | -2104 | 315 | 0 | -254 | -350 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1G | 164 | -0 | -2774 | -251 | 0 | 190 | -993 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1H | 164 | -0 | -2104 | -251 | 0 | 190 | -350 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1I | 164 | -0 | -3214 | 686 | 0 | -546 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1J | 164 | -0 | -1664 | 686 | 0 | -546 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1K | 164 | -0 | -3214 | -623 | 0 | 482 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1L | 164 | -0 | -1664 | -623 | 0 | 482 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1M | 164 | -0 | -3214 | 686 | 0 | -546 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1N | 164 | -0 | -1664 | 686 | 0 | -546 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1O | 164 | -0 | -3214 | -623 | 0 | 482 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.17 | 0.94 | 0.00 | 0.00 | 16.0 |
| 1P | 164 | -0 | -1664 | -623 | 0 | 482 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 2 | 164 | -0 | -4107 | 43 | 0 | -51 | -1199 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.53 | 0.22 | 1.20 | 5.73 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -0 | -3124 | 315 | 0 | -319 | -1597 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.16 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1B | 185 | -0 | -2454 | 315 | 0 | -319 | -818 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.13 | 0.72 | 0.00 | 0.00 | 5.0 |
| 1C | 185 | -0 | -3124 | -251 | 0 | 241 | -1597 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.16 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1D | 185 | -0 | -2454 | -251 | 0 | 241 | -818 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.13 | 0.72 | 0.00 | 0.00 | 5.0 |
| 1E | 185 | -0 | -3124 | 315 | 0 | -319 | -1597 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.16 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1F | 185 | -0 | -2454 | 315 | 0 | -319 | -818 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.13 | 0.72 | 0.00 | 0.00 | 5.0 |
| 1G | 185 | -0 | -3124 | -251 | 0 | 241 | -1597 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.16 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1H | 185 | -0 | -2454 | -251 | 0 | 241 | -818 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.13 | 0.72 | 0.00 | 0.00 | 5.0 |
| 1I | 185 | -0 | -3564 | 686 | 0 | -687 | -2110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.93 | 0.19 | 1.05 | 4.97 | 0.00 | 5.0 |
| 1J | 185 | -0 | -2013 | 686 | 0 | -687 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.11 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1K | 185 | -0 | -3564 | -623 | 0 | 610 | -2110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.93 | 0.19 | 1.05 | 4.97 | 0.00 | 5.0 |
| 1L | 185 | -0 | -2013 | -623 | 0 | 610 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.11 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1M | 185 | -0 | -3564 | 686 | 0 | -687 | -2110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.93 | 0.19 | 1.05 | 4.97 | 0.00 | 5.0 |
| 1N | 185 | -0 | -2013 | 686 | 0 | -687 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.11 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1O | 185 | -0 | -3564 | -623 | 0 | 610 | -2110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.93 | 0.19 | 1.05 | 4.97 | 0.00 | 5.0 |
| 1P | 185 | -0 | -2013 | -623 | 0 | 610 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.11 | 0.59 | 0.00 | 0.00 | 5.0 |
| 2 | 185 | -0 | -4681 | 43 | 0 | -59 | -2100 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.92 | 0.25 | 1.37 | 6.53 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -0 | -3473 | 315 | 0 | -383 | -2274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.18 | 1.02 | 4.84 | 0.00 | 5.0 |
| 1B | 205 | -0 | -2803 | 315 | 0 | -383 | -1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.15 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1C | 205 | -0 | -3473 | -251 | 0 | 293 | -2274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.18 | 1.02 | 4.84 | 0.00 | 5.0 |
| 1D | 205 | -0 | -2803 | -251 | 0 | 293 | -1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.15 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1E | 205 | -0 | -3473 | 315 | 0 | -383 | -2274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.18 | 1.02 | 4.84 | 0.00 | 5.0 |
| 1F | 205 | -0 | -2803 | 315 | 0 | -383 | -1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.15 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1G | 205 | -0 | -3473 | -251 | 0 | 293 | -2274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.18 | 1.02 | 4.84 | 0.00 | 5.0 |
| 1H | 205 | -0 | -2803 | -251 | 0 | 293 | -1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.15 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1I | 205 | -0 | -3913 | 686 | 0 | -828 | -2876 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.85 | 0.21 | 1.00 | 5.46 | 0.00 | 5.0 |
| 1J | 205 | -0 | -2363 | 686 | 0 | -828 | -754 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 5.0 |
| 1K | 205 | -0 | -3913 | -623 | 0 | 737 | -2876 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.85 | 0.21 | 1.00 | 5.46 | 0.00 | 5.0 |
| 1L | 205 | -0 | -2363 | -623 | 0 | 737 | -754 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 5.0 |
| 1M | 205 | -0 | -3913 | 686 | 0 | -828 | -2876 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.85 | 0.21 | 1.00 | 5.46 | 0.00 | 5.0 |

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1N | 205 | -0 | -2363 | 686 | 0 | -828 | -754 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 5.0 |
| 1O | 205 | -0 | -3913 | -623 | 0 | 737 | -2876 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.85 | 0.21 | 1.00 | 5.46 | 0.00 | 5.0 |
| 1P | 205 | -0 | -2363 | -623 | 0 | 737 | -754 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 5.0 |
| 2 | 205 | -0 | -5256 | 43 | 0 | -68 | -3118 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.92 | 0.28 | 1.35 | 7.33 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 21**  NI 17581  NF 17526  SEZ.  Rp  B= 30.0  H= 22.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.6500  16.5625  15.3000  33.5125  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 1728 | 154 | 0 | 144 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.51 | 0.00 | 0.00 | 5.0 |
| 1B | 0 | -0 | 1962 | 154 | 0 | 144 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1C | 0 | -0 | 1728 | -293 | 0 | -296 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.09 | 0.51 | 0.00 | 0.00 | 5.0 |
| 1D | 0 | -0 | 1962 | -293 | 0 | -296 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1E | 0 | -0 | 1728 | 154 | 0 | 144 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.51 | 0.00 | 0.00 | 5.0 |
| 1F | 0 | -0 | 1962 | 154 | 0 | 144 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1G | 0 | -0 | 1728 | -293 | 0 | -296 | 72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.09 | 0.51 | 0.00 | 0.00 | 5.0 |
| 1H | 0 | -0 | 1962 | -293 | 0 | -296 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1I | 0 | -0 | 1574 | 448 | 0 | 434 | 192 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 2116 | 448 | 0 | 434 | -230 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.11 | 0.62 | 0.00 | 0.00 | 5.0 |
| 1K | 0 | -0 | 1574 | -586 | 0 | -586 | 192 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 2116 | -586 | 0 | -586 | -230 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.11 | 0.62 | 0.00 | 0.00 | 5.0 |
| 1M | 0 | -0 | 1574 | 448 | 0 | 434 | 192 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 2116 | 448 | 0 | 434 | -230 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.11 | 0.62 | 0.00 | 0.00 | 5.0 |
| 1O | 0 | -0 | 1574 | -586 | 0 | -586 | 192 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 2116 | -586 | 0 | -586 | -230 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.11 | 0.62 | 0.00 | 0.00 | 5.0 |
| 2 | 0 | -0 | 3026 | -122 | 0 | -138 | 52 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 19 | -0 | 1207 | 154 | 0 | 115 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.35 | 0.00 | 0.00 | 5.0 |
| 1B | 19 | -0 | 1441 | 154 | 0 | 115 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1C | 19 | -0 | 1207 | -293 | 0 | -241 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.35 | 0.00 | 0.00 | 5.0 |
| 1D | 19 | -0 | 1441 | -293 | 0 | -241 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1E | 19 | -0 | 1207 | 154 | 0 | 115 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.35 | 0.00 | 0.00 | 5.0 |
| 1F | 19 | -0 | 1441 | 154 | 0 | 115 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1G | 19 | -0 | 1207 | -293 | 0 | -241 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.35 | 0.00 | 0.00 | 5.0 |
| 1H | 19 | -0 | 1441 | -293 | 0 | -241 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1I | 19 | -0 | 1054 | 448 | 0 | 349 | 442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1J | 19 | -0 | 1595 | 448 | 0 | 349 | 123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.08 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1K | 19 | -0 | 1054 | -586 | 0 | -474 | 442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1L | 19 | -0 | 1595 | -586 | 0 | -474 | 123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.08 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1M | 19 | -0 | 1054 | 448 | 0 | 349 | 442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1N | 19 | -0 | 1595 | 448 | 0 | 349 | 123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.08 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1O | 19 | -0 | 1054 | -586 | 0 | -474 | 442 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1P | 19 | -0 | 1595 | -586 | 0 | -474 | 123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.08 | 0.47 | 0.00 | 0.00 | 5.0 |
| 2 | 19 | -0 | 2140 | -122 | 0 | -114 | 543 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.11 | 0.63 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -0 | 687 | 154 | 0 | 86 | 532 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1B | 38 | -0 | 921 | 154 | 0 | 86 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1C | 38 | -0 | 687 | -293 | 0 | -185 | 532 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1D | 38 | -0 | 921 | -293 | 0 | -185 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1E | 38 | -0 | 687 | 154 | 0 | 86 | 532 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1F | 38 | -0 | 921 | 154 | 0 | 86 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1G | 38 | -0 | 687 | -293 | 0 | -185 | 532 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1H | 38 | -0 | 921 | -293 | 0 | -185 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1I | 38 | -0 | 533 | 448 | 0 | 264 | 593 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1J | 38 | -0 | 1074 | 448 | 0 | 264 | 376 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1K | 38 | -0 | 533 | -586 | 0 | -363 | 593 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1L | 38 | -0 | 1074 | -586 | 0 | -363 | 376 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1M | 38 | -0 | 533 | 448 | 0 | 264 | 593 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1N | 38 | -0 | 1074 | 448 | 0 | 264 | 376 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1O | 38 | -0 | 533 | -586 | 0 | -363 | 593 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1P | 38 | -0 | 1074 | -586 | 0 | -363 | 376 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 2 | 38 | -0 | 1253 | -122 | 0 | -91 | 866 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.07 | 0.37 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 57 | -0 | 166 | 154 | 0 | 57 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1B | 57 | -0 | 400 | 154 | 0 | 57 | 564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1C | 57 | -0 | 166 | -293 | 0 | -129 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.11 | 0.00 | 0.00 | 16.0 |
| 1D | 57 | -0 | 400 | -293 | 0 | -129 | 564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1E | 57 | -0 | 166 | 154 | 0 | 57 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1F | 57 | -0 | 400 | 154 | 0 | 57 | 564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1G | 57 | -0 | 166 | -293 | 0 | -129 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.11 | 0.00 | 0.00 | 16.0 |
| 1H | 57 | -0 | 400 | -293 | 0 | -129 | 564 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1I | 57 | -0 | 12 | 448 | 0 | 179 | 645 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1J | 57 | -0 | 554 | 448 | 0 | 179 | 531 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1K | 57 | -0 | 12 | -586 | 0 | -251 | 645 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1L | 57 | -0 | 554 | -586 | 0 | -251 | 531 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1M | 57 | -0 | 12 | 448 | 0 | 179 | 645 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1N | 57 | -0 | 554 | 448 | 0 | 179 | 531 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 57 | -0 | 12 | -586 | 0 | -251 | 645 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1P | 57 | -0 | 554 | -586 | 0 | -251 | 531 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 2 | 57 | -0 | 367 | -122 | 0 | -68 | 1020 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.02 | 0.11 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -0 | -355 | 154 | 0 | 27 | 595 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1B | 76 | -0 | -121 | 154 | 0 | 27 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1C | 76 | -0 | -355 | -293 | 0 | -74 | 595 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.11 | 0.00 | 0.00 | 16.0 |
| 1D | 76 | -0 | -121 | -293 | 0 | -74 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.11 | 0.00 | 0.00 | 16.0 |
| 1E | 76 | -0 | -355 | 154 | 0 | 27 | 595 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1F | 76 | -0 | -121 | 154 | 0 | 27 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1G | 76 | -0 | -355 | -293 | 0 | -74 | 595 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.11 | 0.00 | 0.00 | 16.0 |
| 1H | 76 | -0 | -121 | -293 | 0 | -74 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.11 | 0.00 | 0.00 | 16.0 |
| 1I | 76 | -0 | -509 | 448 | 0 | 94 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1J | 76 | -0 | 33 | 448 | 0 | 94 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1K | 76 | -0 | -509 | -586 | 0 | -140 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1L | 76 | -0 | 33 | -586 | 0 | -140 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1M | 76 | -0 | -509 | 448 | 0 | 94 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1N | 76 | -0 | 33 | 448 | 0 | 94 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1O | 76 | -0 | -509 | -586 | 0 | -140 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1P | 76 | -0 | 33 | -586 | 0 | -140 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 2 | 76 | -0 | -519 | -122 | 0 | -45 | 1005 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.03 | 0.15 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 95 | -0 | -876 | 154 | 0 | -2 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.26 | 0.00 | 0.00 | 16.0 |
| 1B | 95 | -0 | -641 | 154 | 0 | -2 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1C | 95 | -0 | -876 | -293 | 0 | -18 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.26 | 0.00 | 0.00 | 16.0 |
| 1D | 95 | -0 | -641 | -293 | 0 | -18 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1E | 95 | -0 | -876 | 154 | 0 | -2 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.26 | 0.00 | 0.00 | 16.0 |
| 1F | 95 | -0 | -641 | 154 | 0 | -2 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1G | 95 | -0 | -876 | -293 | 0 | -18 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.26 | 0.00 | 0.00 | 16.0 |
| 1H | 95 | -0 | -641 | -293 | 0 | -18 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1I | 95 | -0 | -1029 | 448 | 0 | 8 | 452 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1J | 95 | -0 | -488 | 448 | 0 | 8 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1K | 95 | -0 | -1029 | -586 | 0 | -29 | 452 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1L | 95 | -0 | -488 | -586 | 0 | -29 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1M | 95 | -0 | -1029 | 448 | 0 | 8 | 452 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1N | 95 | -0 | -488 | 448 | 0 | 8 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1O | 95 | -0 | -1029 | -586 | 0 | -29 | 452 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1P | 95 | -0 | -488 | -586 | 0 | -29 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.22 | 0.00 | 0.00 | 16.0 |
| 2 | 95 | -0 | -1406 | -122 | 0 | -22 | 822 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -0 | -1396 | 154 | 0 | -31 | 262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1B | 114 | -0 | -1162 | 154 | 0 | -31 | 346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1C | 114 | -0 | -1396 | -293 | 0 | 38 | 262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1D | 114 | -0 | -1162 | -293 | 0 | 38 | 346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1E | 114 | -0 | -1396 | 154 | 0 | -31 | 262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1F | 114 | -0 | -1162 | 154 | 0 | -31 | 346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1G | 114 | -0 | -1396 | -293 | 0 | 38 | 262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1H | 114 | -0 | -1162 | -293 | 0 | 38 | 346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1I | 114 | -0 | -1550 | 448 | 0 | -77 | 207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1J | 114 | -0 | -1008 | 448 | 0 | -77 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1K | 114 | -0 | -1550 | -586 | 0 | 83 | 207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1L | 114 | -0 | -1008 | -586 | 0 | 83 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1M | 114 | -0 | -1550 | 448 | 0 | -77 | 207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1N | 114 | -0 | -1008 | 448 | 0 | -77 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 1O | 114 | -0 | -1550 | -586 | 0 | 83 | 207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1P | 114 | -0 | -1008 | -586 | 0 | 83 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.05 | 0.30 | 0.00 | 0.00 | 16.0 |
| 2 | 114 | -0 | -2292 | -122 | 0 | 2 | 471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -0 | -1917 | 154 | 0 | -61 | -53 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1B | 133 | -0 | -1683 | 154 | 0 | -61 | 76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1C | 133 | -0 | -1917 | -293 | 0 | 93 | -53 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1D | 133 | -0 | -1683 | -293 | 0 | 93 | 76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1E | 133 | -0 | -1917 | 154 | 0 | -61 | -53 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1F | 133 | -0 | -1683 | 154 | 0 | -61 | 76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1G | 133 | -0 | -1917 | -293 | 0 | 93 | -53 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1H | 133 | -0 | -1683 | -293 | 0 | 93 | 76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1I | 133 | -0 | -2071 | 448 | 0 | -162 | -137 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1J | 133 | -0 | -1529 | 448 | 0 | -162 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1K | 133 | -0 | -2071 | -586 | 0 | 194 | -137 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1L | 133 | -0 | -1529 | -586 | 0 | 194 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1M | 133 | -0 | -2071 | 448 | 0 | -162 | -137 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1N | 133 | -0 | -1529 | 448 | 0 | -162 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1O | 133 | -0 | -2071 | -586 | 0 | 194 | -137 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1P | 133 | -0 | -1529 | -586 | 0 | 194 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 2 | 133 | -0 | -3178 | -122 | 0 | 25 | -49 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.17 | 0.93 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -0 | -2438 | 154 | 0 | -90 | -467 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1B | 152 | -0 | -2204 | 154 | 0 | -90 | -293 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1C | 152 | -0 | -2438 | -293 | 0 | 149 | -467 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1D | 152 | -0 | -2204 | -293 | 0 | 149 | -293 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1E | 152 | -0 | -2438 | 154 | 0 | -90 | -467 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1F | 152 | -0 | -2204 | 154 | 0 | -90 | -293 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1G | 152 | -0 | -2438 | -293 | 0 | 149 | -467 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1H | 152 | -0 | -2204 | -293 | 0 | 149 | -293 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 152 | -0 | -2591 | 448 | 0 | -247 | -581 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1J | 152 | -0 | -2050 | 448 | 0 | -247 | -179 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1K | 152 | -0 | -2591 | -586 | 0 | 306 | -581 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1L | 152 | -0 | -2050 | -586 | 0 | 306 | -179 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1M | 152 | -0 | -2591 | 448 | 0 | -247 | -581 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1N | 152 | -0 | -2050 | 448 | 0 | -247 | -179 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1O | 152 | -0 | -2591 | -586 | 0 | 306 | -581 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1P | 152 | -0 | -2050 | -586 | 0 | 306 | -179 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 2 | 152 | -0 | -4064 | -122 | 0 | 48 | -738 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.21 | 1.19 | 5.67 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -0 | -2958 | 154 | 0 | -119 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1B | 171 | -0 | -2724 | 154 | 0 | -119 | -762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1C | 171 | -0 | -2958 | -293 | 0 | 205 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1D | 171 | -0 | -2724 | -293 | 0 | 205 | -762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1E | 171 | -0 | -2958 | 154 | 0 | -119 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1F | 171 | -0 | -2724 | 154 | 0 | -119 | -762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1G | 171 | -0 | -2958 | -293 | 0 | 205 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1H | 171 | -0 | -2724 | -293 | 0 | 205 | -762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1I | 171 | -0 | -3112 | 448 | 0 | -332 | -1123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1J | 171 | -0 | -2571 | 448 | 0 | -332 | -618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1K | 171 | -0 | -3112 | -586 | 0 | 417 | -1123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1L | 171 | -0 | -2571 | -586 | 0 | 417 | -618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1M | 171 | -0 | -3112 | 448 | 0 | -332 | -1123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1N | 171 | -0 | -2571 | 448 | 0 | -332 | -618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1O | 171 | -0 | -3112 | -586 | 0 | 417 | -1123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1P | 171 | -0 | -2571 | -586 | 0 | 417 | -618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 2 | 171 | -0 | -4951 | -122 | 0 | 71 | -1595 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.26 | 1.45 | 6.91 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -0 | -3479 | 154 | 0 | -149 | -1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.18 | 1.02 | 4.85 | 0.00 | 5.0 |
| 1B | 190 | -0 | -3245 | 154 | 0 | -149 | -1329 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.17 | 0.95 | 0.00 | 0.00 | 5.0 |
| 1C | 190 | -0 | -3479 | -293 | 0 | 260 | -1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.18 | 1.02 | 4.85 | 0.00 | 5.0 |
| 1D | 190 | -0 | -3245 | -293 | 0 | 260 | -1329 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.17 | 0.95 | 0.00 | 0.00 | 5.0 |
| 1E | 190 | -0 | -3479 | 154 | 0 | -149 | -1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.18 | 1.02 | 4.85 | 0.00 | 5.0 |
| 1F | 190 | -0 | -3245 | 154 | 0 | -149 | -1329 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.17 | 0.95 | 0.00 | 0.00 | 5.0 |
| 1G | 190 | -0 | -3479 | -293 | 0 | 260 | -1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.18 | 1.02 | 4.85 | 0.00 | 5.0 |
| 1H | 190 | -0 | -3245 | -293 | 0 | 260 | -1329 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.17 | 0.95 | 0.00 | 0.00 | 5.0 |
| 1I | 190 | -0 | -3633 | 448 | 0 | -417 | -1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 1J | 190 | -0 | -3091 | 448 | 0 | -417 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1K | 190 | -0 | -3633 | -586 | 0 | 529 | -1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 1L | 190 | -0 | -3091 | -586 | 0 | 529 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1M | 190 | -0 | -3633 | 448 | 0 | -417 | -1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 1N | 190 | -0 | -3091 | 448 | 0 | -417 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1O | 190 | -0 | -3633 | -586 | 0 | 529 | -1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 1P | 190 | -0 | -3091 | -586 | 0 | 529 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 2 | 190 | -0 | -5837 | -122 | 0 | 95 | -2620 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.78 | 0.31 | 1.50 | 8.14 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22**  NI 17523  NF 17522  SEZ.  Rp  B= 20.0  H= 22.0  (trave)

categoria: p.p. y qy tot.
qy medio:  1.1000  1.1000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -673 | 176 | 0 | 92 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1B | 0 | -0 | 1547 | 176 | 0 | 92 | -840 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.37 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1C | 0 | -0 | -673 | -105 | 0 | -56 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1D | 0 | -0 | 1547 | -105 | 0 | -56 | -840 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.37 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1E | 0 | -0 | -673 | 176 | 0 | 92 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1F | 0 | -0 | 1547 | 176 | 0 | 92 | -840 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.37 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1G | 0 | -0 | -673 | -105 | 0 | -56 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1H | 0 | -0 | 1547 | -105 | 0 | -56 | -840 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.37 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1I | 0 | -0 | -2131 | 360 | 0 | 190 | 1197 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.53 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 3005 | 360 | 0 | 190 | -1647 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.73 | 0.24 | 1.15 | 4.19 | 0.00 | 5.0 |
| 1K | 0 | -0 | -2131 | -290 | 0 | -154 | 1197 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.53 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 3005 | -290 | 0 | -154 | -1647 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.73 | 0.24 | 1.15 | 4.19 | 0.00 | 5.0 |
| 1M | 0 | -0 | -2131 | 360 | 0 | 190 | 1197 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.53 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 3005 | 360 | 0 | 190 | -1647 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.73 | 0.24 | 1.15 | 4.19 | 0.00 | 5.0 |
| 1O | 0 | -0 | -2131 | -290 | 0 | -154 | 1197 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.53 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 3005 | -290 | 0 | -154 | -1647 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.73 | 0.24 | 1.15 | 4.19 | 0.00 | 5.0 |
| 2 | 0 | -0 | 680 | 63 | 0 | 32 | -358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 11 | -0 | -685 | 176 | 0 | 73 | 315 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1B | 11 | -0 | 1534 | 176 | 0 | 73 | -670 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1C | 11 | -0 | -685 | -105 | 0 | -45 | 315 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1D | 11 | -0 | 1534 | -105 | 0 | -45 | -670 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1E | 11 | -0 | -685 | 176 | 0 | 73 | 315 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1F | 11 | -0 | 1534 | 176 | 0 | 73 | -670 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1G | 11 | -0 | -685 | -105 | 0 | -45 | 315 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1H | 11 | -0 | 1534 | -105 | 0 | -45 | -670 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1I | 11 | -0 | -2143 | 360 | 0 | 150 | 962 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 11 | -0 | 2993 | 360 | 0 | 150 | -1317 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.58 | 0.24 | 1.15 | 4.17 | 0.00 | 5.0 |
| 1K | 11 | -0 | -2143 | -290 | 0 | -122 | 962 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1L | 11 | -0 | 2993 | -290 | 0 | -122 | -1317 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.58 | 0.24 | 1.15 | 4.17 | 0.00 | 5.0 |
| 1M | 11 | -0 | -2143 | 360 | 0 | 150 | 962 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1N | 11 | -0 | 2993 | 360 | 0 | 150 | -1317 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.58 | 0.24 | 1.15 | 4.17 | 0.00 | 5.0 |
| 1O | 11 | -0 | -2143 | -290 | 0 | -122 | 962 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1P | 11 | -0 | 2993 | -290 | 0 | -122 | -1317 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.58 | 0.24 | 1.15 | 4.17 | 0.00 | 5.0 |
| 2 | 11 | -0 | 665 | 63 | 0 | 25 | -284 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.13 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 22 | -0 | -697 | 176 | 0 | 54 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.05 | 0.27 | 0.00 | 0.00 | 5.0 |
| 1B | 22 | -0 | 1522 | 176 | 0 | 54 | -502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1C | 22 | -0 | -697 | -105 | 0 | -33 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.05 | 0.27 | 0.00 | 0.00 | 5.0 |
| 1D | 22 | -0 | 1522 | -105 | 0 | -33 | -502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1E | 22 | -0 | -697 | 176 | 0 | 54 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.05 | 0.27 | 0.00 | 0.00 | 5.0 |
| 1F | 22 | -0 | 1522 | 176 | 0 | 54 | -502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1G | 22 | -0 | -697 | -105 | 0 | -33 | 239 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.05 | 0.27 | 0.00 | 0.00 | 5.0 |
| 1H | 22 | -0 | 1522 | -105 | 0 | -33 | -502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.59 | 0.00 | 0.00 | 5.0 |
| 1I | 22 | -0 | -2155 | 360 | 0 | 111 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.32 | 0.17 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1J | 22 | -0 | 2980 | 360 | 0 | 111 | -989 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.44 | 0.23 | 1.15 | 4.16 | 0.00 | 5.0 |
| 1K | 22 | -0 | -2155 | -290 | 0 | -90 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.32 | 0.17 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1L | 22 | -0 | 2980 | -290 | 0 | -90 | -989 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.44 | 0.23 | 1.15 | 4.16 | 0.00 | 5.0 |
| 1M | 22 | -0 | -2155 | 360 | 0 | 111 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.32 | 0.17 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1N | 22 | -0 | 2980 | 360 | 0 | 111 | -989 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.44 | 0.23 | 1.15 | 4.16 | 0.00 | 5.0 |
| 1O | 22 | -0 | -2155 | -290 | 0 | -90 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.32 | 0.17 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1P | 22 | -0 | 2980 | -290 | 0 | -90 | -989 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.44 | 0.23 | 1.15 | 4.16 | 0.00 | 5.0 |
| 2 | 22 | -0 | 649 | 63 | 0 | 18 | -212 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.05 | 0.25 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -0 | -709 | 176 | 0 | 34 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1B | 33 | -0 | 1510 | 176 | 0 | 34 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1C | 33 | -0 | -709 | -105 | 0 | -21 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1D | 33 | -0 | 1510 | -105 | 0 | -21 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1E | 33 | -0 | -709 | 176 | 0 | 34 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1F | 33 | -0 | 1510 | 176 | 0 | 34 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1G | 33 | -0 | -709 | -105 | 0 | -21 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1H | 33 | -0 | 1510 | -105 | 0 | -21 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1I | 33 | -0 | -2167 | 360 | 0 | 71 | 488 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.17 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1J | 33 | -0 | 2968 | 360 | 0 | 71 | -662 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.23 | 1.14 | 4.14 | 0.00 | 16.0 |
| 1K | 33 | -0 | -2167 | -290 | 0 | -58 | 488 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.17 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1L | 33 | -0 | 2968 | -290 | 0 | -58 | -662 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.23 | 1.14 | 4.14 | 0.00 | 16.0 |
| 1M | 33 | -0 | -2167 | 360 | 0 | 71 | 488 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.17 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1N | 33 | -0 | 2968 | 360 | 0 | 71 | -662 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.23 | 1.14 | 4.14 | 0.00 | 16.0 |
| 1O | 33 | -0 | -2167 | -290 | 0 | -58 | 488 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.17 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1P | 33 | -0 | 2968 | -290 | 0 | -58 | -662 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.23 | 1.14 | 4.14 | 0.00 | 16.0 |
| 2 | 33 | -0 | 633 | 63 | 0 | 12 | -141 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.05 | 0.24 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | -721 | 176 | 0 | 15 | 83 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1B | 44 | -0 | 1498 | 176 | 0 | 15 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1C | 44 | -0 | -721 | -105 | 0 | -10 | 83 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1D | 44 | -0 | 1498 | -105 | 0 | -10 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1E | 44 | -0 | -721 | 176 | 0 | 15 | 83 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1F | 44 | -0 | 1498 | 176 | 0 | 15 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1G | 44 | -0 | -721 | -105 | 0 | -10 | 83 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1H | 44 | -0 | 1498 | -105 | 0 | -10 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.12 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1I | 44 | -0 | -2179 | 360 | 0 | 32 | 249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1J | 44 | -0 | 2956 | 360 | 0 | 32 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.23 | 1.14 | 4.12 | 0.00 | 16.0 |
| 1K | 44 | -0 | -2179 | -290 | 0 | -26 | 249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1L | 44 | -0 | 2956 | -290 | 0 | -26 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.23 | 1.14 | 4.12 | 0.00 | 16.0 |
| 1M | 44 | -0 | -2179 | 360 | 0 | 32 | 249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1N | 44 | -0 | 2956 | 360 | 0 | 32 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.23 | 1.14 | 4.12 | 0.00 | 16.0 |
| 1O | 44 | -0 | -2179 | -290 | 0 | -26 | 249 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1P | 44 | -0 | 2956 | -290 | 0 | -26 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.23 | 1.14 | 4.12 | 0.00 | 16.0 |
| 2 | 44 | -0 | 617 | 63 | 0 | 5 | -72 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.03 | 0.05 | 0.24 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 55 | -0 | -733 | 176 | 0 | -4 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1B | 55 | -0 | 1486 | 176 | 0 | -4 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1C | 55 | -0 | -733 | -105 | 0 | 2 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1D | 55 | -0 | 1486 | -105 | 0 | 2 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1E | 55 | -0 | -733 | 176 | 0 | -4 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1F | 55 | -0 | 1486 | 176 | 0 | -4 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1G | 55 | -0 | -733 | -105 | 0 | 2 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.06 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1H | 55 | -0 | 1486 | -105 | 0 | 2 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1I | 55 | -0 | -2192 | 360 | 0 | -8 | 8 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1J | 55 | -0 | 2944 | 360 | 0 | -8 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.23 | 1.13 | 4.11 | 0.00 | 16.0 |
| 1K | 55 | -0 | -2192 | -290 | 0 | 6 | 8 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1L | 55 | -0 | 2944 | -290 | 0 | 6 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.23 | 1.13 | 4.11 | 0.00 | 16.0 |
| 1M | 55 | -0 | -2192 | 360 | 0 | -8 | 8 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1N | 55 | -0 | 2944 | 360 | 0 | -8 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.23 | 1.13 | 4.11 | 0.00 | 16.0 |
| 1O | 55 | -0 | -2192 | -290 | 0 | 6 | 8 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.17 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1P | 55 | -0 | 2944 | -290 | 0 | 6 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.23 | 1.13 | 4.11 | 0.00 | 16.0 |
| 2 | 55 | -0 | 602 | 63 | 0 | -2 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.05 | 0.23 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | -0 | -746 | 176 | 0 | -23 | -79 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1B | 66 | -0 | 1474 | 176 | 0 | -23 | 157 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1C | 66 | -0 | -746 | -105 | 0 | 13 | -79 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 66 | -0 | 1474 | -105 | 0 | 13 | 157 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1E | 66 | -0 | -746 | 176 | 0 | -23 | -79 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1F | 66 | -0 | 1474 | 176 | 0 | -23 | 157 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1G | 66 | -0 | -746 | -105 | 0 | 13 | -79 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1H | 66 | -0 | 1474 | -105 | 0 | 13 | 157 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.12 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1I | 66 | -0 | -2204 | 360 | 0 | -48 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1J | 66 | -0 | 2932 | 360 | 0 | -48 | 311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.23 | 1.13 | 4.09 | 0.00 | 16.0 |
| 1K | 66 | -0 | -2204 | -290 | 0 | 37 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1L | 66 | -0 | 2932 | -290 | 0 | 37 | 311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.23 | 1.13 | 4.09 | 0.00 | 16.0 |
| 1M | 66 | -0 | -2204 | 360 | 0 | -48 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1N | 66 | -0 | 2932 | 360 | 0 | -48 | 311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.23 | 1.13 | 4.09 | 0.00 | 16.0 |
| 1O | 66 | -0 | -2204 | -290 | 0 | 37 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1P | 66 | -0 | 2932 | -290 | 0 | 37 | 311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.23 | 1.13 | 4.09 | 0.00 | 16.0 |
| 2 | 66 | -0 | 586 | 63 | 0 | -9 | 60 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.03 | 0.05 | 0.23 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 77 | -0 | -758 | 176 | 0 | -43 | -161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1B | 77 | -0 | 1462 | 176 | 0 | -43 | 318 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1C | 77 | -0 | -758 | -105 | 0 | 25 | -161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1D | 77 | -0 | 1462 | -105 | 0 | 25 | 318 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1E | 77 | -0 | -758 | 176 | 0 | -43 | -161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1F | 77 | -0 | 1462 | 176 | 0 | -43 | 318 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1G | 77 | -0 | -758 | -105 | 0 | 25 | -161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.06 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1H | 77 | -0 | 1462 | -105 | 0 | 25 | 318 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1I | 77 | -0 | -2216 | 360 | 0 | -87 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1J | 77 | -0 | 2920 | 360 | 0 | -87 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.23 | 1.12 | 4.07 | 0.00 | 16.0 |
| 1K | 77 | -0 | -2216 | -290 | 0 | 69 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1L | 77 | -0 | 2920 | -290 | 0 | 69 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.23 | 1.12 | 4.07 | 0.00 | 16.0 |
| 1M | 77 | -0 | -2216 | 360 | 0 | -87 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1N | 77 | -0 | 2920 | 360 | 0 | -87 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.23 | 1.12 | 4.07 | 0.00 | 16.0 |
| 1O | 77 | -0 | -2216 | -290 | 0 | 69 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.17 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1P | 77 | -0 | 2920 | -290 | 0 | 69 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.23 | 1.12 | 4.07 | 0.00 | 16.0 |
| 2 | 77 | -0 | 570 | 63 | 0 | -16 | 123 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | -770 | 176 | 0 | -62 | -245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1B | 88 | -0 | 1450 | 176 | 0 | -62 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.56 | 0.00 | 0.00 | 5.0 |
| 1C | 88 | -0 | -770 | -105 | 0 | 36 | -245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1D | 88 | -0 | 1450 | -105 | 0 | 36 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.56 | 0.00 | 0.00 | 5.0 |
| 1E | 88 | -0 | -770 | 176 | 0 | -62 | -245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1F | 88 | -0 | 1450 | 176 | 0 | -62 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.56 | 0.00 | 0.00 | 5.0 |
| 1G | 88 | -0 | -770 | -105 | 0 | 36 | -245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1H | 88 | -0 | 1450 | -105 | 0 | 36 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.56 | 0.00 | 0.00 | 5.0 |
| 1I | 88 | -0 | -2228 | 360 | 0 | -127 | -721 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.32 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1J | 88 | -0 | 2908 | 360 | 0 | -127 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.42 | 0.23 | 1.12 | 4.06 | 0.00 | 5.0 |
| 1K | 88 | -0 | -2228 | -290 | 0 | 101 | -721 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.32 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1L | 88 | -0 | 2908 | -290 | 0 | 101 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.42 | 0.23 | 1.12 | 4.06 | 0.00 | 5.0 |
| 1M | 88 | -0 | -2228 | 360 | 0 | -127 | -721 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.32 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1N | 88 | -0 | 2908 | 360 | 0 | -127 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.42 | 0.23 | 1.12 | 4.06 | 0.00 | 5.0 |
| 1O | 88 | -0 | -2228 | -290 | 0 | 101 | -721 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.32 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1P | 88 | -0 | 2908 | -290 | 0 | 101 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.42 | 0.23 | 1.12 | 4.06 | 0.00 | 5.0 |
| 2 | 88 | -0 | 555 | 63 | 0 | -23 | 185 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.04 | 0.21 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 99 | -0 | -782 | 176 | 0 | -81 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1B | 99 | -0 | 1438 | 176 | 0 | -81 | 637 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1C | 99 | -0 | -782 | -105 | 0 | 48 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1D | 99 | -0 | 1438 | -105 | 0 | 48 | 637 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1E | 99 | -0 | -782 | 176 | 0 | -81 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1F | 99 | -0 | 1438 | 176 | 0 | -81 | 637 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1G | 99 | -0 | -782 | -105 | 0 | 48 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.06 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1H | 99 | -0 | 1438 | -105 | 0 | 48 | 637 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1I | 99 | -0 | -2240 | 360 | 0 | -166 | -967 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1J | 99 | -0 | 2896 | 360 | 0 | -166 | 1273 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.56 | 0.23 | 1.11 | 4.04 | 0.00 | 5.0 |
| 1K | 99 | -0 | -2240 | -290 | 0 | 133 | -967 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1L | 99 | -0 | 2896 | -290 | 0 | 133 | 1273 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.56 | 0.23 | 1.11 | 4.04 | 0.00 | 5.0 |
| 1M | 99 | -0 | -2240 | 360 | 0 | -166 | -967 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1N | 99 | -0 | 2896 | 360 | 0 | -166 | 1273 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.56 | 0.23 | 1.11 | 4.04 | 0.00 | 5.0 |
| 1O | 99 | -0 | -2240 | -290 | 0 | 133 | -967 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.43 | 0.18 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1P | 99 | -0 | 2896 | -290 | 0 | 133 | 1273 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.56 | 0.23 | 1.11 | 4.04 | 0.00 | 5.0 |
| 2 | 99 | -0 | 539 | 63 | 0 | -30 | 245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.04 | 0.21 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | -794 | 176 | 0 | -101 | -417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1B | 110 | -0 | 1425 | 176 | 0 | -101 | 795 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.35 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1C | 110 | -0 | -794 | -105 | 0 | 60 | -417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1D | 110 | -0 | 1425 | -105 | 0 | 60 | 795 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.35 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1E | 110 | -0 | -794 | 176 | 0 | -101 | -417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1F | 110 | -0 | 1425 | 176 | 0 | -101 | 795 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.35 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1G | 110 | -0 | -794 | -105 | 0 | 60 | -417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.06 | 0.31 | 0.00 | 0.00 | 5.0 |
| 1H | 110 | -0 | 1425 | -105 | 0 | 60 | 795 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.35 | 0.11 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1I | 110 | -0 | -2252 | 360 | 0 | -206 | -1214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.54 | 0.18 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1J | 110 | -0 | 2884 | 360 | 0 | -206 | 1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.71 | 0.23 | 1.11 | 4.02 | 0.00 | 5.0 |
| 1K | 110 | -0 | -2252 | -290 | 0 | 165 | -1214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.54 | 0.18 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1L | 110 | -0 | 2884 | -290 | 0 | 165 | 1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.71 | 0.23 | 1.11 | 4.02 | 0.00 | 5.0 |
| 1M | 110 | -0 | -2252 | 360 | 0 | -206 | -1214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.54 | 0.18 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1N | 110 | -0 | 2884 | 360 | 0 | -206 | 1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.71 | 0.23 | 1.11 | 4.02 | 0.00 | 5.0 |
| 1O | 110 | -0 | -2252 | -290 | 0 | 165 | -1214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.54 | 0.18 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1P | 110 | -0 | 2884 | -290 | 0 | 165 | 1591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.71 | 0.23 | 1.11 | 4.02 | 0.00 | 5.0 |
| 2 | 110 | -0 | 523 | 63 | 0 | -37 | 304 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.13 | 0.04 | 0.20 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **57** Tabella: **Travi scala**
Descrizione: **Travi pianerottoli via dei quartieri**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 24** NI 17778 NF 17776 SEZ. Rp B= 50.0 H= 18.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 2.2500 20.0400 13.6272 35.9172 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 4143 | 24 | 0 | -309 | -945 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.16 | 1.00 | 7.22 | 0.00 | 4.0 |
| 1B | 0 | -0 | 4331 | 24 | 0 | -309 | -1207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.17 | 1.05 | 7.55 | 0.00 | 4.0 |
| 1C | 0 | -0 | 4143 | -5 | 0 | -347 | -945 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.16 | 1.00 | 7.22 | 0.00 | 4.0 |
| 1D | 0 | -0 | 4331 | -5 | 0 | -347 | -1207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.17 | 1.05 | 7.55 | 0.00 | 4.0 |
| 1E | 0 | -0 | 4143 | 24 | 0 | -309 | -945 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.16 | 1.00 | 7.22 | 0.00 | 4.0 |
| 1F | 0 | -0 | 4331 | 24 | 0 | -309 | -1207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.17 | 1.05 | 7.55 | 0.00 | 4.0 |
| 1G | 0 | -0 | 4143 | -5 | 0 | -347 | -945 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.16 | 1.00 | 7.22 | 0.00 | 4.0 |
| 1H | 0 | -0 | 4331 | -5 | 0 | -347 | -1207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.17 | 1.05 | 7.55 | 0.00 | 4.0 |
| 1I | 0 | -0 | 3926 | 57 | 0 | -264 | -640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.95 | 0.00 | 0.00 | 4.0 |
| 1J | 0 | -0 | 4548 | 57 | 0 | -264 | -1512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.82 | 0.18 | 1.10 | 7.93 | 0.00 | 4.0 |
| 1K | 0 | -0 | 3926 | -38 | 0 | -392 | -640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.95 | 0.00 | 0.00 | 4.0 |
| 1L | 0 | -0 | 4548 | -38 | 0 | -392 | -1512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.82 | 0.18 | 1.10 | 7.93 | 0.00 | 4.0 |
| 1M | 0 | -0 | 3926 | 57 | 0 | -264 | -640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.95 | 0.00 | 0.00 | 4.0 |
| 1N | 0 | -0 | 4548 | 57 | 0 | -264 | -1512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.82 | 0.18 | 1.10 | 7.93 | 0.00 | 4.0 |
| 1O | 0 | -0 | 3926 | -38 | 0 | -392 | -640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.95 | 0.00 | 0.00 | 4.0 |
| 1P | 0 | -0 | 4548 | -38 | 0 | -392 | -1512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.82 | 0.18 | 1.10 | 7.93 | 0.00 | 4.0 |
| 2 | 0 | -0 | 6889 | 17 | 0 | -530 | -1768 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.27 | 1.67 | 12.01 | 0.00 | 4.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d 8 / 4.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 28 | -0 | 3290 | 24 | 0 | -315 | 96 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.80 | 0.00 | 0.00 | 4.0 |
| 1B | 28 | -0 | 3478 | 24 | 0 | -315 | -114 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.14 | 0.84 | 0.00 | 0.00 | 4.0 |
| 1C | 28 | -0 | 3290 | -5 | 0 | -346 | 96 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.80 | 0.00 | 0.00 | 4.0 |
| 1D | 28 | -0 | 3478 | -5 | 0 | -346 | -114 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.14 | 0.84 | 0.00 | 0.00 | 4.0 |
| 1E | 28 | -0 | 3290 | 24 | 0 | -315 | 96 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.80 | 0.00 | 0.00 | 4.0 |
| 1F | 28 | -0 | 3478 | 24 | 0 | -315 | -114 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.14 | 0.84 | 0.00 | 0.00 | 4.0 |
| 1G | 28 | -0 | 3290 | -5 | 0 | -346 | 96 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.80 | 0.00 | 0.00 | 4.0 |
| 1H | 28 | -0 | 3478 | -5 | 0 | -346 | -114 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.14 | 0.84 | 0.00 | 0.00 | 4.0 |
| 1I | 28 | -0 | 3073 | 57 | 0 | -279 | 340 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.12 | 0.74 | 0.00 | 0.00 | 4.0 |
| 1J | 28 | -0 | 3695 | 57 | 0 | -279 | -358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.15 | 0.89 | 0.00 | 0.00 | 4.0 |
| 1K | 28 | -0 | 3073 | -38 | 0 | -382 | 340 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.12 | 0.74 | 0.00 | 0.00 | 4.0 |
| 1L | 28 | -0 | 3695 | -38 | 0 | -382 | -358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.15 | 0.89 | 0.00 | 0.00 | 4.0 |
| 1M | 28 | -0 | 3073 | 57 | 0 | -279 | 340 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.12 | 0.74 | 0.00 | 0.00 | 4.0 |
| 1N | 28 | -0 | 3695 | 57 | 0 | -279 | -358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.15 | 0.89 | 0.00 | 0.00 | 4.0 |
| 1O | 28 | -0 | 3073 | -38 | 0 | -382 | 340 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.12 | 0.74 | 0.00 | 0.00 | 4.0 |
| 1P | 28 | -0 | 3695 | -38 | 0 | -382 | -358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.15 | 0.89 | 0.00 | 0.00 | 4.0 |
| 2 | 28 | -0 | 5505 | 17 | 0 | -535 | -33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.22 | 1.33 | 9.60 | 0.00 | 4.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d 8 / 4.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 56 | -0 | 2437 | 24 | 0 | -322 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.10 | 0.59 | 0.00 | 0.00 | 12.8 |
| 1B | 56 | -0 | 2625 | 24 | 0 | -322 | 740 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.10 | 0.64 | 0.00 | 0.00 | 12.8 |
| 1C | 56 | -0 | 2437 | -5 | 0 | -345 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.10 | 0.59 | 0.00 | 0.00 | 12.8 |
| 1D | 56 | -0 | 2625 | -5 | 0 | -345 | 740 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.10 | 0.64 | 0.00 | 0.00 | 12.8 |
| 1E | 56 | -0 | 2437 | 24 | 0 | -322 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.10 | 0.59 | 0.00 | 0.00 | 12.8 |
| 1F | 56 | -0 | 2625 | 24 | 0 | -322 | 740 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.10 | 0.64 | 0.00 | 0.00 | 12.8 |
| 1G | 56 | -0 | 2437 | -5 | 0 | -345 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.10 | 0.59 | 0.00 | 0.00 | 12.8 |
| 1H | 56 | -0 | 2625 | -5 | 0 | -345 | 740 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.10 | 0.64 | 0.00 | 0.00 | 12.8 |
| 1I | 56 | -0 | 2220 | 57 | 0 | -295 | 1081 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.09 | 0.54 | 0.00 | 0.00 | 12.8 |
| 1J | 56 | -0 | 2842 | 57 | 0 | -295 | 558 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.11 | 0.69 | 0.00 | 0.00 | 12.8 |
| 1K | 56 | -0 | 2220 | -38 | 0 | -371 | 1081 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.09 | 0.54 | 0.00 | 0.00 | 12.8 |
| 1L | 56 | -0 | 2842 | -38 | 0 | -371 | 558 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.11 | 0.69 | 0.00 | 0.00 | 12.8 |
| 1M | 56 | -0 | 2220 | 57 | 0 | -295 | 1081 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.09 | 0.54 | 0.00 | 0.00 | 12.8 |
| 1N | 56 | -0 | 2842 | 57 | 0 | -295 | 558 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.11 | 0.69 | 0.00 | 0.00 | 12.8 |
| 1O | 56 | -0 | 2220 | -38 | 0 | -371 | 1081 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.09 | 0.54 | 0.00 | 0.00 | 12.8 |
| 1P | 56 | -0 | 2842 | -38 | 0 | -371 | 558 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.11 | 0.69 | 0.00 | 0.00 | 12.8 |
| 2 | 56 | -0 | 4122 | 17 | 0 | -540 | 1315 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.16 | 1.00 | 0.00 | 0.00 | 12.8 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 84 | -0 | 1584 | 24 | 0 | -328 | 1461 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.06 | 0.38 | 0.00 | 0.00 | 12.8 |
| 1B | 84 | -0 | 1772 | 24 | 0 | -328 | 1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.07 | 0.43 | 0.00 | 0.00 | 12.8 |
| 1C | 84 | -0 | 1584 | -5 | 0 | -343 | 1461 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.06 | 0.38 | 0.00 | 0.00 | 12.8 |
| 1D | 84 | -0 | 1772 | -5 | 0 | -343 | 1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.07 | 0.43 | 0.00 | 0.00 | 12.8 |
| 1E | 84 | -0 | 1584 | 24 | 0 | -328 | 1461 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.06 | 0.38 | 0.00 | 0.00 | 12.8 |
| 1F | 84 | -0 | 1772 | 24 | 0 | -328 | 1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.07 | 0.43 | 0.00 | 0.00 | 12.8 |
| 1G | 84 | -0 | 1584 | -5 | 0 | -343 | 1461 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.06 | 0.38 | 0.00 | 0.00 | 12.8 |
| 1H | 84 | -0 | 1772 | -5 | 0 | -343 | 1356 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.07 | 0.43 | 0.00 | 0.00 | 12.8 |
| 1I | 84 | -0 | 1367 | 57 | 0 | -311 | 1583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.86 | 0.05 | 0.33 | 0.00 | 0.00 | 12.8 |
| 1J | 84 | -0 | 1989 | 57 | 0 | -311 | 1234 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.08 | 0.48 | 0.00 | 0.00 | 12.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 84 | -0 | 1367 | -38 | 0 | -360 | 1583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.86 | 0.05 | 0.33 | 0.00 | 0.00 | 12.8 |
| 1L | 84 | -0 | 1989 | -38 | 0 | -360 | 1234 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.08 | 0.48 | 0.00 | 0.00 | 12.8 |
| 1M | 84 | -0 | 1367 | 57 | 0 | -311 | 1583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.86 | 0.05 | 0.33 | 0.00 | 0.00 | 12.8 |
| 1N | 84 | -0 | 1989 | 57 | 0 | -311 | 1234 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.08 | 0.48 | 0.00 | 0.00 | 12.8 |
| 1O | 84 | -0 | 1367 | -38 | 0 | -360 | 1583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.86 | 0.05 | 0.33 | 0.00 | 0.00 | 12.8 |
| 1P | 84 | -0 | 1989 | -38 | 0 | -360 | 1234 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.08 | 0.48 | 0.00 | 0.00 | 12.8 |
| 2 | 84 | -0 | 2738 | 17 | 0 | -545 | 2275 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.84 | 0.11 | 0.58 | 0.00 | 0.00 | 12.8 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 112 | -0 | 731 | 24 | 0 | -335 | 1785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.18 | 0.00 | 0.00 | 12.8 |
| 1B | 112 | -0 | 919 | 24 | 0 | -335 | 1733 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.22 | 0.00 | 0.00 | 12.8 |
| 1C | 112 | -0 | 731 | -5 | 0 | -342 | 1785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.18 | 0.00 | 0.00 | 12.8 |
| 1D | 112 | -0 | 919 | -5 | 0 | -342 | 1733 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.22 | 0.00 | 0.00 | 12.8 |
| 1E | 112 | -0 | 731 | 24 | 0 | -335 | 1785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.18 | 0.00 | 0.00 | 12.8 |
| 1F | 112 | -0 | 919 | 24 | 0 | -335 | 1733 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.22 | 0.00 | 0.00 | 12.8 |
| 1G | 112 | -0 | 731 | -5 | 0 | -342 | 1785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.18 | 0.00 | 0.00 | 12.8 |
| 1H | 112 | -0 | 919 | -5 | 0 | -342 | 1733 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.22 | 0.00 | 0.00 | 12.8 |
| 1I | 112 | -0 | 514 | 57 | 0 | -327 | 1847 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.68 | 0.02 | 0.11 | 0.00 | 0.00 | 12.8 |
| 1J | 112 | -0 | 1136 | 57 | 0 | -327 | 1672 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.91 | 0.04 | 0.28 | 0.00 | 0.00 | 12.8 |
| 1K | 112 | -0 | 514 | -38 | 0 | -350 | 1847 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.68 | 0.02 | 0.11 | 0.00 | 0.00 | 12.8 |
| 1L | 112 | -0 | 1136 | -38 | 0 | -350 | 1672 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.91 | 0.04 | 0.28 | 0.00 | 0.00 | 12.8 |
| 1M | 112 | -0 | 514 | 57 | 0 | -327 | 1847 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.68 | 0.02 | 0.11 | 0.00 | 0.00 | 12.8 |
| 1N | 112 | -0 | 1136 | 57 | 0 | -327 | 1672 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.91 | 0.04 | 0.28 | 0.00 | 0.00 | 12.8 |
| 1O | 112 | -0 | 514 | -38 | 0 | -350 | 1847 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.68 | 0.02 | 0.11 | 0.00 | 0.00 | 12.8 |
| 1P | 112 | -0 | 1136 | -38 | 0 | -350 | 1672 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.91 | 0.04 | 0.28 | 0.00 | 0.00 | 12.8 |
| 2 | 112 | -0 | 1354 | 17 | 0 | -549 | 2848 | 3.08 | 3.08 | 6.16 | 3.08 | 0.21 | 0.80 | 0.05 | 0.26 | 0.00 | 0.00 | 12.8 |

apost= -- aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -0 | -122 | 24 | 0 | -341 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.03 | 0.00 | 0.00 | 12.8 |
| 1B | 140 | -0 | 66 | 24 | 0 | -341 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.01 | 0.00 | 0.00 | 12.8 |
| 1C | 140 | -0 | -122 | -5 | 0 | -340 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.03 | 0.00 | 0.00 | 12.8 |
| 1D | 140 | -0 | 66 | -5 | 0 | -340 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.01 | 0.00 | 0.00 | 12.8 |
| 1E | 140 | -0 | -122 | 24 | 0 | -341 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.03 | 0.00 | 0.00 | 12.8 |
| 1F | 140 | -0 | 66 | 24 | 0 | -341 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.01 | 0.00 | 0.00 | 12.8 |
| 1G | 140 | -0 | -122 | -5 | 0 | -340 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.03 | 0.00 | 0.00 | 12.8 |
| 1H | 140 | -0 | 66 | -5 | 0 | -340 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.00 | 0.01 | 0.00 | 0.00 | 12.8 |
| 1I | 140 | -0 | -339 | 57 | 0 | -343 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.07 | 0.00 | 0.00 | 12.8 |
| 1J | 140 | -0 | 283 | 57 | 0 | -343 | 1870 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.06 | 0.00 | 0.00 | 12.8 |
| 1K | 140 | -0 | -339 | -38 | 0 | -339 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.07 | 0.00 | 0.00 | 12.8 |
| 1L | 140 | -0 | 283 | -38 | 0 | -339 | 1870 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.06 | 0.00 | 0.00 | 12.8 |
| 1M | 140 | -0 | -339 | 57 | 0 | -343 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.07 | 0.00 | 0.00 | 12.8 |
| 1N | 140 | -0 | 283 | 57 | 0 | -343 | 1870 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.06 | 0.00 | 0.00 | 12.8 |
| 1O | 140 | -0 | -339 | -38 | 0 | -339 | 1871 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.07 | 0.00 | 0.00 | 12.8 |
| 1P | 140 | -0 | 283 | -38 | 0 | -339 | 1870 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.69 | 0.01 | 0.06 | 0.00 | 0.00 | 12.8 |
| 2 | 140 | -0 | -29 | 17 | 0 | -554 | 3033 | 3.08 | 3.08 | 6.16 | 3.08 | 0.21 | 0.85 | 0.00 | 0.01 | 0.00 | 0.00 | 12.8 |

apost= -- aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 168 | -0 | -975 | 24 | 0 | -348 | 1717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.24 | 0.00 | 0.00 | 12.8 |
| 1B | 168 | -0 | -787 | 24 | 0 | -348 | 1770 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.19 | 0.00 | 0.00 | 12.8 |
| 1C | 168 | -0 | -975 | -5 | 0 | -339 | 1717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.24 | 0.00 | 0.00 | 12.8 |
| 1D | 168 | -0 | -787 | -5 | 0 | -339 | 1770 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.19 | 0.00 | 0.00 | 12.8 |
| 1E | 168 | -0 | -975 | 24 | 0 | -348 | 1717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.24 | 0.00 | 0.00 | 12.8 |
| 1F | 168 | -0 | -787 | 24 | 0 | -348 | 1770 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.19 | 0.00 | 0.00 | 12.8 |
| 1G | 168 | -0 | -975 | -5 | 0 | -339 | 1717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.94 | 0.04 | 0.24 | 0.00 | 0.00 | 12.8 |
| 1H | 168 | -0 | -787 | -5 | 0 | -339 | 1770 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.97 | 0.03 | 0.19 | 0.00 | 0.00 | 12.8 |
| 1I | 168 | -0 | -1192 | 57 | 0 | -359 | 1657 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.90 | 0.05 | 0.29 | 0.00 | 0.00 | 12.8 |
| 1J | 168 | -0 | -570 | 57 | 0 | -359 | 1830 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.02 | 0.14 | 0.00 | 0.00 | 12.8 |
| 1K | 168 | -0 | -1192 | -38 | 0 | -328 | 1657 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.90 | 0.05 | 0.29 | 0.00 | 0.00 | 12.8 |
| 1L | 168 | -0 | -570 | -38 | 0 | -328 | 1830 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.02 | 0.14 | 0.00 | 0.00 | 12.8 |
| 1M | 168 | -0 | -1192 | 57 | 0 | -359 | 1657 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.90 | 0.05 | 0.29 | 0.00 | 0.00 | 12.8 |
| 1N | 168 | -0 | -570 | 57 | 0 | -359 | 1830 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.02 | 0.14 | 0.00 | 0.00 | 12.8 |
| 1O | 168 | -0 | -1192 | -38 | 0 | -328 | 1657 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.90 | 0.05 | 0.29 | 0.00 | 0.00 | 12.8 |
| 1P | 168 | -0 | -570 | -38 | 0 | -328 | 1830 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 1.00 | 0.02 | 0.14 | 0.00 | 0.00 | 12.8 |
| 2 | 168 | -0 | -1413 | 17 | 0 | -559 | 2831 | 3.08 | 3.08 | 6.16 | 3.08 | 0.21 | 0.80 | 0.06 | 0.27 | 0.00 | 0.00 | 12.8 |

apost= -- aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -0 | -1828 | 24 | 0 | -355 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.07 | 0.44 | 0.00 | 0.00 | 12.8 |
| 1B | 196 | -0 | -1640 | 24 | 0 | -355 | 1430 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.06 | 0.40 | 0.00 | 0.00 | 12.8 |
| 1C | 196 | -0 | -1828 | -5 | 0 | -338 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.07 | 0.44 | 0.00 | 0.00 | 12.8 |
| 1D | 196 | -0 | -1640 | -5 | 0 | -338 | 1430 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.06 | 0.40 | 0.00 | 0.00 | 12.8 |
| 1E | 196 | -0 | -1828 | 24 | 0 | -355 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.07 | 0.44 | 0.00 | 0.00 | 12.8 |
| 1F | 196 | -0 | -1640 | 24 | 0 | -355 | 1430 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.06 | 0.40 | 0.00 | 0.00 | 12.8 |
| 1G | 196 | -0 | -1828 | -5 | 0 | -338 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.07 | 0.44 | 0.00 | 0.00 | 12.8 |
| 1H | 196 | -0 | -1640 | -5 | 0 | -338 | 1430 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.06 | 0.40 | 0.00 | 0.00 | 12.8 |
| 1I | 196 | -0 | -2045 | 57 | 0 | -374 | 1204 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.08 | 0.50 | 0.00 | 0.00 | 12.8 |
| 1J | 196 | -0 | -1423 | 57 | 0 | -374 | 1551 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.06 | 0.34 | 0.00 | 0.00 | 12.8 |
| 1K | 196 | -0 | -2045 | -38 | 0 | -318 | 1204 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.08 | 0.50 | 0.00 | 0.00 | 12.8 |
| 1L | 196 | -0 | -1423 | -38 | 0 | -318 | 1551 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.06 | 0.34 | 0.00 | 0.00 | 12.8 |
| 1M | 196 | -0 | -2045 | 57 | 0 | -374 | 1204 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.08 | 0.50 | 0.00 | 0.00 | 12.8 |
| 1N | 196 | -0 | -1423 | 57 | 0 | -374 | 1551 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.06 | 0.34 | 0.00 | 0.00 | 12.8 |
| 1O | 196 | -0 | -2045 | -38 | 0 | -318 | 1204 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.08 | 0.50 | 0.00 | 0.00 | 12.8 |
| 1P | 196 | -0 | -1423 | -38 | 0 | -318 | 1551 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.06 | 0.34 | 0.00 | 0.00 | 12.8 |
| 2 | 196 | -0 | -2797 | 17 | 0 | -564 | 2242 | 3.08 | 3.08 | 4.62 | 3.08 | 0.18 | 0.83 | 0.11 | 0.59 | 0.00 | 0.00 | 12.8 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 224 | -0 | -2681 | 24 | 0 | -361 | 694 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.11 | 0.65 | 0.00 | 0.00 | 12.8 |
| 1B | 224 | -0 | -2493 | 24 | 0 | -361 | 851 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.10 | 0.60 | 0.00 | 0.00 | 12.8 |
| 1C | 224 | -0 | -2681 | -5 | 0 | -336 | 694 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.11 | 0.65 | 0.00 | 0.00 | 12.8 |
| 1D | 224 | -0 | -2493 | -5 | 0 | -336 | 851 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.10 | 0.60 | 0.00 | 0.00 | 12.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 224 | -0 | -2681 | 24 | 0 | -361 | 694 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.11 | 0.65 | 0.00 | 0.00 | 12.8 |
| 1F | 224 | -0 | -2493 | 24 | 0 | -361 | 851 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.10 | 0.60 | 0.00 | 0.00 | 12.8 |
| 1G | 224 | -0 | -2681 | -5 | 0 | -336 | 694 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.11 | 0.65 | 0.00 | 0.00 | 12.8 |
| 1H | 224 | -0 | -2493 | -5 | 0 | -336 | 851 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.10 | 0.60 | 0.00 | 0.00 | 12.8 |
| 1I | 224 | -0 | -2898 | 57 | 0 | -390 | 512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.11 | 0.70 | 0.00 | 0.00 | 12.8 |
| 1J | 224 | -0 | -2276 | 57 | 0 | -390 | 1033 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.09 | 0.55 | 0.00 | 0.00 | 12.8 |
| 1K | 224 | -0 | -2898 | -38 | 0 | -307 | 512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.11 | 0.70 | 0.00 | 0.00 | 12.8 |
| 1L | 224 | -0 | -2276 | -38 | 0 | -307 | 1033 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.09 | 0.55 | 0.00 | 0.00 | 12.8 |
| 1M | 224 | -0 | -2898 | 57 | 0 | -390 | 512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.11 | 0.70 | 0.00 | 0.00 | 12.8 |
| 1N | 224 | -0 | -2276 | 57 | 0 | -390 | 1033 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.09 | 0.55 | 0.00 | 0.00 | 12.8 |
| 1O | 224 | -0 | -2898 | -38 | 0 | -307 | 512 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.11 | 0.70 | 0.00 | 0.00 | 12.8 |
| 1P | 224 | -0 | -2276 | -38 | 0 | -307 | 1033 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.09 | 0.55 | 0.00 | 0.00 | 12.8 |
| 2 | 224 | -0 | -4181 | 17 | 0 | -568 | 1265 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.16 | 1.01 | 7.29 | 0.00 | 12.8 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 12.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 252 | -0 | -3534 | 24 | 0 | -368 | -176 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.14 | 0.86 | 0.00 | 0.00 | 4.0 |
| 1B | 252 | -0 | -3346 | 24 | 0 | -368 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.13 | 0.81 | 0.00 | 0.00 | 4.0 |
| 1C | 252 | -0 | -3534 | -5 | 0 | -335 | -176 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.14 | 0.86 | 0.00 | 0.00 | 4.0 |
| 1D | 252 | -0 | -3346 | -5 | 0 | -335 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.81 | 0.00 | 0.00 | 4.0 |
| 1E | 252 | -0 | -3534 | 24 | 0 | -368 | -176 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.14 | 0.86 | 0.00 | 0.00 | 4.0 |
| 1F | 252 | -0 | -3346 | 24 | 0 | -368 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.13 | 0.81 | 0.00 | 0.00 | 4.0 |
| 1G | 252 | -0 | -3534 | -5 | 0 | -335 | -176 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.14 | 0.86 | 0.00 | 0.00 | 4.0 |
| 1H | 252 | -0 | -3346 | -5 | 0 | -335 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.81 | 0.00 | 0.00 | 4.0 |
| 1I | 252 | -0 | -3751 | 57 | 0 | -406 | -419 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.91 | 0.00 | 0.00 | 4.0 |
| 1J | 252 | -0 | -3129 | 57 | 0 | -406 | 277 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.76 | 0.00 | 0.00 | 4.0 |
| 1K | 252 | -0 | -3751 | -38 | 0 | -297 | -419 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.91 | 0.00 | 0.00 | 4.0 |
| 1L | 252 | -0 | -3129 | -38 | 0 | -297 | 277 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.76 | 0.00 | 0.00 | 4.0 |
| 1M | 252 | -0 | -3751 | 57 | 0 | -406 | -419 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.91 | 0.00 | 0.00 | 4.0 |
| 1N | 252 | -0 | -3129 | 57 | 0 | -406 | 277 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.76 | 0.00 | 0.00 | 4.0 |
| 1O | 252 | -0 | -3751 | -38 | 0 | -297 | -419 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.91 | 0.00 | 0.00 | 4.0 |
| 1P | 252 | -0 | -3129 | -38 | 0 | -297 | 277 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.76 | 0.00 | 0.00 | 4.0 |
| 2 | 252 | -0 | -5564 | 17 | 0 | -573 | -99 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.22 | 1.35 | 9.70 | 0.00 | 4.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 280 | -0 | -4387 | 24 | 0 | -374 | -1285 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.17 | 1.06 | 7.65 | 0.00 | 4.0 |
| 1B | 280 | -0 | -4199 | 24 | 0 | -374 | -1023 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.17 | 1.02 | 7.32 | 0.00 | 4.0 |
| 1C | 280 | -0 | -4387 | -5 | 0 | -333 | -1285 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.17 | 1.06 | 7.65 | 0.00 | 4.0 |
| 1D | 280 | -0 | -4199 | -5 | 0 | -333 | -1023 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.17 | 1.02 | 7.32 | 0.00 | 4.0 |
| 1E | 280 | -0 | -4387 | 24 | 0 | -374 | -1285 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.17 | 1.06 | 7.65 | 0.00 | 4.0 |
| 1F | 280 | -0 | -4199 | 24 | 0 | -374 | -1023 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.17 | 1.02 | 7.32 | 0.00 | 4.0 |
| 1G | 280 | -0 | -4387 | -5 | 0 | -333 | -1285 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.70 | 0.17 | 1.06 | 7.65 | 0.00 | 4.0 |
| 1H | 280 | -0 | -4199 | -5 | 0 | -333 | -1023 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.17 | 1.02 | 7.32 | 0.00 | 4.0 |
| 1I | 280 | -0 | -4604 | 57 | 0 | -422 | -1589 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.87 | 0.18 | 1.11 | 8.03 | 0.00 | 4.0 |
| 1J | 280 | -0 | -3982 | 57 | 0 | -422 | -719 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.16 | 0.96 | 0.00 | 0.00 | 4.0 |
| 1K | 280 | -0 | -4604 | -38 | 0 | -286 | -1589 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.87 | 0.18 | 1.11 | 8.03 | 0.00 | 4.0 |
| 1L | 280 | -0 | -3982 | -38 | 0 | -286 | -719 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.16 | 0.96 | 0.00 | 0.00 | 4.0 |
| 1M | 280 | -0 | -4604 | 57 | 0 | -422 | -1589 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.87 | 0.18 | 1.11 | 8.03 | 0.00 | 4.0 |
| 1N | 280 | -0 | -3982 | 57 | 0 | -422 | -719 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.16 | 0.96 | 0.00 | 0.00 | 4.0 |
| 1O | 280 | -0 | -4604 | -38 | 0 | -286 | -1589 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.87 | 0.18 | 1.11 | 8.03 | 0.00 | 4.0 |
| 1P | 280 | -0 | -3982 | -38 | 0 | -286 | -719 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.16 | 0.96 | 0.00 | 0.00 | 4.0 |
| 2 | 280 | -0 | -6948 | 17 | 0 | -578 | -1851 | 3.08 | 3.08 | 3.08 | 4.62 | 0.18 | 0.68 | 0.27 | 1.47 | 12.12 | 0.00 | 4.0 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 4.0  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **65** Tabella: **Travi scala**
Descrizione: **Travi nuove 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 17415 NF 17446 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1B | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1C | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1D | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1E | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1F | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1G | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1H | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1I | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1J | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1K | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1L | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1M | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1N | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1O | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 1P | 0 | -0 | 1719 | -171 | 0 | -51 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.10 | 0.54 | 0.00 | 0.00 | 4.5 |
| 2 | 0 | -0 | 2598 | -248 | 0 | -75 | -458 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.15 | 0.82 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1B | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1C | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1D | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1E | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1F | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1G | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1H | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1I | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1J | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1K | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1L | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1M | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1N | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1O | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 1P | 25 | -0 | 1682 | -171 | 0 | -8 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.10 | 0.53 | 0.00 | 0.00 | 4.5 |
| 2 | 25 | -0 | 2550 | -248 | 0 | -13 | 177 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.09 | 0.15 | 0.80 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1B | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1C | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1D | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1E | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1F | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1G | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1H | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1I | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1J | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1K | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1L | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1M | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1N | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1O | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 1P | 49 | -0 | 1645 | -171 | 0 | 34 | 523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.10 | 0.52 | 0.00 | 0.00 | 14.4 |
| 2 | 49 | -0 | 2502 | -248 | 0 | 48 | 801 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.39 | 0.15 | 0.79 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 2** NI 17446 NF 17413 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | cm | | kg | | kg*m | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1B | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1C | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1D | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1E | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1F | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1G | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1H | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1I | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1J | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1K | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1L | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1M | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1N | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1O | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 1P | 0 | -0 | -700 | 50 | 0 | 7 | 545 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.27 | 0.04 | 0.22 | 0.00 | 0.00 | 14.4 |
| 2 | 0 | -0 | -1096 | 73 | 0 | 8 | 838 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.41 | 0.06 | 0.34 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1B | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1C | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1D | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1E | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1F | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1G | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1H | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1I | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1J | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1K | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1L | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1M | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1N | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1O | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1P | 14 | -0 | -720 | 50 | 0 | -0 | 448 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 2 | 14 | -0 | -1123 | 73 | 0 | -3 | 685 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.34 | 0.07 | 0.35 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1B | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1C | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1D | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1E | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1F | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1G | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1H | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1I | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1J | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1K | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1L | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1M | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1N | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1O | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1P | 27 | -0 | -741 | 50 | 0 | -7 | 347 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.17 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 2 | 27 | -0 | -1150 | 73 | 0 | -13 | 529 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.26 | 0.07 | 0.36 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1B | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1C | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1D | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1E | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1F | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1G | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1H | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1I | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1J | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1K | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1L | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1M | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1N | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1O | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1P | 41 | -0 | -761 | 50 | 0 | -14 | 244 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.12 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 2 | 41 | -0 | -1176 | 73 | 0 | -23 | 370 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.18 | 0.07 | 0.37 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1B | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1C | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1D | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1E | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1F | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1G | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1H | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1I | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1J | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1K | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1M | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1N | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1O | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1P | 55 | -0 | -782 | 50 | 0 | -21 | 138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 2 | 55 | -0 | -1203 | 73 | 0 | -33 | 206 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.07 | 0.38 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1B | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1C | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1D | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1E | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1F | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1G | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1H | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1I | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1J | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1K | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1L | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1M | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1N | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1O | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1P | 69 | -0 | -802 | 50 | 0 | -27 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 2 | 69 | -0 | -1230 | 73 | 0 | -43 | 39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.02 | 0.07 | 0.39 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1B | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1C | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1D | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1E | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1F | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1G | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1H | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1I | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1J | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1K | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1L | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1M | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1N | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1O | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1P | 82 | -0 | -823 | 50 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 2 | 82 | -0 | -1257 | 73 | 0 | -53 | -131 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.07 | 0.40 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1B | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1C | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1D | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1E | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1F | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1G | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1H | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1I | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1J | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1K | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1L | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1M | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1N | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1O | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1P | 96 | -0 | -844 | 50 | 0 | -41 | -196 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 2 | 96 | -0 | -1284 | 73 | 0 | -63 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.07 | 0.40 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1B | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1C | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1D | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1E | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1F | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1G | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1H | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1I | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1J | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1K | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1L | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1M | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1N | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1O | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 1P | 110 | -0 | -864 | 50 | 0 | -48 | -314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.05 | 0.27 | 0.00 | 0.00 | 4.5 |
| 2 | 110 | -0 | -1310 | 73 | 0 | -73 | -484 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.24 | 0.08 | 0.41 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1B | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1C | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1D | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1E | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1G | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1H | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1I | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1J | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1K | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1L | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1M | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1N | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1O | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1P | 124 | -0 | -885 | 50 | 0 | -55 | -434 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 2 | 124 | -0 | -1337 | 73 | 0 | -83 | -666 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.08 | 0.42 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1B | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1C | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1D | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1E | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1F | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1G | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1H | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1I | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1J | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1K | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1L | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1M | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1N | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1O | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1P | 137 | -0 | -905 | 50 | 0 | -62 | -557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.27 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 2 | 137 | -0 | -1364 | 73 | 0 | -93 | -851 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.42 | 0.08 | 0.43 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 3**  NI 17446  NF 17312  SEZ.  Rp  B= 30.0  H= 20.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.5000  10.1250  7.6500  19.2750  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1B | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1C | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1D | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1E | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1F | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1G | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1H | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1I | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1J | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1K | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1L | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1M | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1N | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1O | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 1P | 0 | -0 | 2345 | -2 | 0 | 27 | -979 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.48 | 0.14 | 0.74 | 0.00 | 0.00 | 4.5 |
| 2 | 0 | -0 | 3598 | -3 | 0 | 40 | -1405 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.69 | 0.21 | 1.13 | 5.58 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1B | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1C | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1D | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1E | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1F | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1G | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1H | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1I | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1J | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1K | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1L | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1M | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1N | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1O | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 1P | 21 | -0 | 2010 | -2 | 0 | 28 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.12 | 0.63 | 0.00 | 0.00 | 4.5 |
| 2 | 21 | -0 | 3050 | -3 | 0 | 41 | -719 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.18 | 0.96 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1B | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1C | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1D | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1E | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1F | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1H | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1I | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1J | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1K | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1L | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1M | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1N | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1O | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 1P | 41 | -0 | 1676 | -2 | 0 | 28 | -149 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.53 | 0.00 | 0.00 | 14.4 |
| 2 | 41 | -0 | 2501 | -3 | 0 | 42 | -147 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.15 | 0.79 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1B | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1C | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1D | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1E | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1F | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1G | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1H | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1I | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1J | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1K | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1L | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1M | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1N | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1O | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 1P | 62 | -0 | 1341 | -2 | 0 | 28 | 162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |
| 2 | 62 | -0 | 1952 | -3 | 0 | 42 | 313 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.11 | 0.61 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1B | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1C | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1D | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1E | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1F | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1G | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1H | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1I | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1J | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1K | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1L | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1M | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1N | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1O | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 1P | 83 | -0 | 1007 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.32 | 0.00 | 0.00 | 14.4 |
| 2 | 83 | -0 | 1404 | -3 | 0 | 43 | 659 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.32 | 0.08 | 0.44 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1B | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1C | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1D | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1E | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1F | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1G | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1H | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1I | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1J | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1K | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1L | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1M | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1N | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1O | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1P | 103 | -0 | 672 | -2 | 0 | 29 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 2 | 103 | -0 | 856 | -3 | 0 | 44 | 892 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.44 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1B | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1C | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1D | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1E | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1F | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1G | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1H | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1I | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1J | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1K | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1L | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1M | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1N | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1O | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1P | 124 | -0 | 337 | -2 | 0 | 30 | 681 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 2 | 124 | -0 | 307 | -3 | 0 | 44 | 1012 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.50 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1B | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1C | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1D | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1E | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1F | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1G | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1H | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1I | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1J | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1K | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1L | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1M | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1N | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1O | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 1P | 144 | -0 | 3 | -2 | 0 | 30 | 716 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 14.4 |
| 2 | 144 | -0 | -242 | -3 | 0 | 45 | 1019 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.50 | 0.01 | 0.08 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1B | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1C | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1D | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1E | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1F | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1G | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1H | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1I | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1J | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1K | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1L | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1M | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1N | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1O | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1P | 165 | -0 | -332 | -2 | 0 | 30 | 683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 2 | 165 | -0 | -790 | -3 | 0 | 46 | 913 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.45 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1B | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1C | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1D | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1E | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1F | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1G | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1H | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1I | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1J | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1K | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1L | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1M | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1N | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1O | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1P | 186 | -0 | -666 | -2 | 0 | 31 | 580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 2 | 186 | -0 | -1338 | -3 | 0 | 46 | 693 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.08 | 0.42 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1B | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1C | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1D | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1E | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1F | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1G | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1H | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1I | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1J | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1K | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1L | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1M | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1N | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1O | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 1P | 206 | -0 | -1001 | -2 | 0 | 31 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 4.5 |
| 2 | 206 | -0 | -1887 | -3 | 0 | 47 | 360 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.18 | 0.11 | 0.59 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4**  NI 17315  NF 17316  SEZ.  Rp  B= 20.0  H= 20.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.0000  4.0500  3.0600  8.1100  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1C | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1D | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1E | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1F | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1G | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1H | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1I | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1J | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1K | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1L | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1M | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1N | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1O | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 1P | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.09 | 0.05 | 0.26 | 0.00 | 0.00 | 4.5 |
| 2 | 0 | -0 | 978 | -76 | 0 | -33 | -278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.14 | 0.09 | 0.40 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1B | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1C | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1D | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1E | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1F | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1G | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1H | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1I | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1J | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1K | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1L | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1M | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1N | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1O | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 1P | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |
| 2 | 9 | -0 | 878 | -76 | 0 | -26 | -195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.10 | 0.08 | 0.36 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1B | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1C | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1D | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1E | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1F | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1G | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1H | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1I | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1J | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1K | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1L | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1M | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1N | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1O | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 1P | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.04 | 0.21 | 0.00 | 0.00 | 4.5 |
| 2 | 18 | -0 | 777 | -76 | 0 | -19 | -120 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.07 | 0.32 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1B | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1C | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1D | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1E | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1F | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1G | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1H | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1I | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1J | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1K | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1L | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1M | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1N | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1O | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 1P | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |
| 2 | 27 | -0 | 677 | -76 | 0 | -12 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.06 | 0.28 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1B | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1C | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1D | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1E | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1F | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1G | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1H | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1I | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1J | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1K | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1L | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1M | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1N | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 1O | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 14.4 |
| 2 | 36 | -0 | 577 | -76 | 0 | -6 | 2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1B | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1C | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1D | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1E | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1F | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1G | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1H | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1I | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1J | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1K | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1L | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1M | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1N | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1O | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 1P | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.13 | 0.00 | 0.00 | 14.4 |
| 2 | 45 | -0 | 476 | -76 | 0 | 1 | 49 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.20 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1B | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1C | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1D | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1E | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1F | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1G | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1H | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1I | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1J | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1K | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1L | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1M | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1N | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1O | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1P | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 2 | 54 | -0 | 376 | -76 | 0 | 8 | 87 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.03 | 0.15 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1B | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1C | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1D | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1E | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1F | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1G | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1H | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1I | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1J | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1K | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1L | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1M | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1N | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1O | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 1P | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.02 | 0.08 | 0.00 | 0.00 | 4.5 |
| 2 | 63 | -0 | 275 | -76 | 0 | 15 | 117 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.06 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1B | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1C | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1D | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1E | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1F | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1G | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1H | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1I | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1J | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1K | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1L | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1M | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1N | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1O | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 1P | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.01 | 0.05 | 0.00 | 0.00 | 4.5 |
| 2 | 72 | -0 | 175 | -76 | 0 | 22 | 137 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.07 | 0.02 | 0.07 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1B | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1C | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1D | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1E | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1F | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1G | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1H | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1I | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1K | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1L | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1M | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1N | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1O | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1P | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 2 | 81 | -0 | 75 | -76 | 0 | 29 | 148 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.07 | 0.01 | 0.04 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1B | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1C | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1D | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1E | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1F | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1G | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1H | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1I | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1J | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1K | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1L | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1M | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1N | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1O | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1P | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 4.5 |
| 2 | 90 | -0 | -26 | -76 | 0 | 35 | 150 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.07 | 0.01 | 0.04 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **65** Tabella: **Tabella travi**
Descrizione: **Travi nuove 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Verifica in ottemperanza alle NTC2008
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 5** NI 14583 NF 14661 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 21.1500 9.1800 37.3300 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1B | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1C | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1D | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1E | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1F | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1G | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1H | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1I | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1J | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1K | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1L | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1M | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1N | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1O | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 1P | 0 | 1156 | 13210 | 41 | 1 | 643 | -14350 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.93 | 0.16 | 1.45 | 5.50 | 0.00 | 11.2 |
| 2 | 0 | 1883 | 19650 | 71 | 1 | 1006 | -21050 | 9.24 | 3.08 | 6.16 | 9.24 | 2 | 0.92 | 0.23 | 2.16 | 8.18 | 0.00 | 11.2 |
| apost= 6.16 aant= -- ainf= 3.08 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1B | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1C | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1D | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1E | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1F | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1G | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1H | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1I | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1J | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1K | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1L | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1M | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1N | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1O | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 1P | 70 | 1156 | 10839 | 41 | 1 | 615 | -5876 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.78 | 0.13 | 1.19 | 4.51 | 0.00 | 11.2 |
| 2 | 70 | 1883 | 16101 | 71 | 1 | 956 | -8458 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.76 | 0.19 | 1.77 | 6.70 | 0.00 | 11.2 |
| apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1B | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1C | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1D | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1E | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1F | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1G | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1H | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1I | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1J | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1K | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1L | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1M | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1N | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1O | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1P | 141 | 1156 | 8468 | 41 | 1 | 586 | 927 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 2 | 141 | 1883 | 12552 | 71 | 1 | 906 | 1634 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.15 | 1.38 | 5.23 | 0.00 | 16.8 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1B | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1C | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1D | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1E | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1F | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1G | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1H | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1I | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1J | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1L | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1M | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1N | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1O | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1P | 211 | 1156 | 6097 | 41 | 1 | 557 | 6059 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 2 | 211 | 1883 | 9003 | 71 | 1 | 855 | 9225 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 0.99 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1B | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1C | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1D | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1E | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1F | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1G | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1H | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1I | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1J | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1K | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1L | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1M | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1N | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1O | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 1P | 282 | 1156 | 3726 | 41 | 1 | 528 | 9520 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.04 | 0.41 | 0.00 | 0.00 | 16.8 |
| 2 | 282 | 1883 | 5454 | 71 | 1 | 805 | 14316 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.60 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1M | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 352 | 1156 | 1355 | 41 | 1 | 499 | 11310 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 352 | 1883 | 1905 | 71 | 1 | 755 | 16907 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1K | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 423 | 1156 | -1016 | 41 | 1 | 471 | 11430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 423 | 1883 | -1644 | 71 | 1 | 705 | 16998 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.90 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1B | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1C | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1D | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1E | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1F | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1G | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1H | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1I | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1J | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1K | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1L | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1M | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1N | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1O | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1P | 493 | 1156 | -3387 | 41 | 1 | 442 | 9878 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 2 | 493 | 1883 | -5193 | 71 | 1 | 655 | 14588 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1B | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1C | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1D | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1F | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1G | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1H | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1I | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1J | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1K | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1L | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1M | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1N | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1O | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1P | 564 | 1156 | -5758 | 41 | 1 | 413 | 6656 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.88 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 2 | 564 | 1883 | -8742 | 71 | 1 | 605 | 9678 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1B | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1C | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1D | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1E | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1F | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1G | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1H | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1I | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1J | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1K | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1L | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1M | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1N | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1O | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1P | 634 | 1156 | -8129 | 41 | 1 | 384 | 1762 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.27 | 0.10 | 0.89 | 0.00 | 0.00 | 11.2 |
| 2 | 634 | 1883 | -12291 | 71 | 1 | 554 | 2268 | 9.24 | 3.08 | 9.24 | 4.62 | 2 | 0.36 | 0.14 | 1.35 | 5.12 | 0.00 | 11.2 |

apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1B | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1C | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1D | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1E | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1F | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1G | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1H | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1I | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1J | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1K | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1L | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1M | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1N | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1O | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 1P | 705 | 1156 | -10500 | 41 | 1 | 355 | -4802 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.65 | 0.12 | 1.16 | 4.37 | 0.00 | 11.2 |
| 2 | 705 | 1883 | -15840 | 71 | 1 | 504 | -7643 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.69 | 0.19 | 1.74 | 6.60 | 0.00 | 11.2 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

# Verifiche della sicurezza in condizioni di Progetto – Verifica delle travi 3° P SLE

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **29** Tabella: **Tabella travi**
Descrizione: **Travi 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 14580 NF 15501 SEZ. Rp B= 65.0 H= 80.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 13.0000 16.2500 7.6500 36.9000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 485 | 19200 | 118 | -120 | -851 | -16930 | 3.08 | 16.93 | 9.24 | 16.93 | -19.00 | 162.5 | 0.00 |
| 4 | 0 | 459 | 17990 | 105 | -109 | -805 | -15930 | 3.08 | 16.93 | 9.24 | 16.93 | -17.88 | 152.9 | 0.00 |
| 5 | 0 | 449 | 17580 | 102 | -105 | -789 | -15590 | 3.08 | 16.93 | 9.24 | 16.93 | -17.50 | 149.6 | 0.00 |
| apost= -- aant= 13.85 ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 36 | 485 | 17874 | 118 | -120 | -893 | -10269 | 3.08 | 16.93 | 9.24 | 16.93 | -11.53 | 98.6 | 0.00 |
| 4 | 36 | 459 | 16746 | 105 | -109 | -843 | -9690 | 3.08 | 16.93 | 9.24 | 16.93 | -10.88 | 93.0 | 0.00 |
| 5 | 36 | 449 | 16364 | 102 | -105 | -826 | -9492 | 3.08 | 16.93 | 9.24 | 16.93 | -10.65 | 91.1 | 0.00 |
| apost= -- aant= 13.85 ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 72 | 485 | 16548 | 118 | -120 | -936 | -4085 | 3.08 | 16.93 | 9.24 | 16.93 | -4.58 | 39.2 | 0.00 |
| 4 | 72 | 459 | 15502 | 105 | -109 | -881 | -3898 | 3.08 | 16.93 | 9.24 | 16.93 | -4.38 | 37.4 | 0.00 |
| 5 | 72 | 449 | 15148 | 102 | -105 | -862 | -3831 | 3.08 | 16.93 | 9.24 | 16.93 | -4.30 | 36.8 | 0.00 |
| apost= -- aant= 13.85 ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 108 | 485 | 15222 | 118 | -120 | -978 | 1623 | 3.08 | 16.93 | 16.93 | 3.08 | -1.87 | 15.8 | 0.00 |
| 4 | 108 | 459 | 14258 | 105 | -109 | -918 | 1448 | 3.08 | 16.93 | 16.93 | 3.08 | -1.67 | 14.1 | 0.00 |
| 5 | 108 | 449 | 13932 | 102 | -105 | -899 | 1394 | 3.08 | 16.93 | 16.93 | 3.08 | -1.61 | 13.5 | 0.00 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 144 | 485 | 13896 | 118 | -120 | -1020 | 6855 | 3.08 | 16.93 | 16.93 | 3.08 | -7.91 | 66.6 | 0.00 |
| 4 | 144 | 459 | 13014 | 105 | -109 | -956 | 6347 | 3.08 | 16.93 | 16.93 | 3.08 | -7.32 | 61.6 | 0.00 |
| 5 | 144 | 449 | 12716 | 102 | -105 | -935 | 6181 | 3.08 | 16.93 | 16.93 | 3.08 | -7.13 | 60.0 | 0.00 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 180 | 485 | 12571 | 118 | -120 | -1063 | 11610 | 3.08 | 16.93 | 16.93 | 3.08 | -13.39 | 112.7 | 0.00 |
| 4 | 180 | 459 | 11771 | 105 | -109 | -994 | 10800 | 3.08 | 16.93 | 16.93 | 3.08 | -12.46 | 104.9 | 0.00 |
| 5 | 180 | 449 | 11501 | 102 | -105 | -972 | 10531 | 3.08 | 16.93 | 16.93 | 3.08 | -12.15 | 102.2 | 0.00 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 216 | 485 | 11245 | 118 | -120 | -1105 | 15889 | 3.08 | 16.93 | 16.93 | 3.08 | -18.33 | 154.3 | 0.00 |
| 4 | 216 | 459 | 10527 | 105 | -109 | -1032 | 14805 | 3.08 | 16.93 | 16.93 | 3.08 | -17.08 | 143.7 | 0.00 |
| 5 | 216 | 449 | 10285 | 102 | -105 | -1008 | 14445 | 3.08 | 16.93 | 16.93 | 3.08 | -16.66 | 140.2 | 0.00 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 252 | 485 | 9919 | 118 | -120 | -1148 | 19691 | 3.08 | 16.93 | 16.93 | 3.08 | -39.77 | 1651.7 | 0.08 |
| 4 | 252 | 459 | 9283 | 105 | -109 | -1070 | 18364 | 3.08 | 16.93 | 16.93 | 3.08 | -37.09 | 1540.4 | 0.07 |
| 5 | 252 | 449 | 9069 | 102 | -105 | -1045 | 17922 | 3.08 | 16.93 | 16.93 | 3.08 | -36.19 | 1503.3 | 0.06 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 287 | 485 | 8593 | 118 | -120 | -1190 | 23017 | 3.08 | 16.93 | 16.93 | 3.08 | -46.48 | 1930.7 | 0.10 |
| 4 | 287 | 459 | 8039 | 105 | -109 | -1108 | 21476 | 3.08 | 16.93 | 16.93 | 3.08 | -43.37 | 1801.5 | 0.09 |
| 5 | 287 | 449 | 7853 | 102 | -105 | -1081 | 20961 | 3.08 | 16.93 | 16.93 | 3.08 | -42.33 | 1758.3 | 0.09 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 323 | 485 | 7267 | 118 | -120 | -1233 | 25867 | 3.08 | 16.93 | 16.93 | 3.08 | -52.24 | 2169.8 | 0.12 |
| 4 | 323 | 459 | 6795 | 105 | -109 | -1146 | 24142 | 3.08 | 16.93 | 16.93 | 3.08 | -48.75 | 2025.0 | 0.11 |
| 5 | 323 | 449 | 6637 | 102 | -105 | -1118 | 23564 | 3.08 | 16.93 | 16.93 | 3.08 | -47.59 | 1976.6 | 0.10 |
| apost= -- aant= 13.85 ainf= 13.85 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 359 | 485 | 5941 | 118 | -120 | -1275 | 28240 | 16.93 | 16.93 | 16.93 | 4.62 | -55.96 | 2362.9 | 0.14 |
| 4 | 359 | 459 | 5551 | 105 | -109 | -1184 | 26360 | 16.93 | 16.93 | 16.93 | 4.62 | -52.24 | 2205.6 | 0.12 |
| 5 | 359 | 449 | 5421 | 102 | -105 | -1154 | 25730 | 16.93 | 16.93 | 16.93 | 4.62 | -50.99 | 2152.9 | 0.12 |
| apost= 13.85 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 2** NI 15501 NF 14635 SEZ. Rp B= 65.0 H= 80.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 13.0000 16.2500 7.6500 36.9000 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -156 | -3108 | 546 | 1844 | 269 | 29010 | 16.93 | 16.93 | 16.93 | 4.62 | -57.49 | 2427.3 | 0.14 |
| 4 | 0 | -135 | -2828 | 502 | 1666 | 246 | 27070 | 16.93 | 16.93 | 16.93 | 4.62 | -53.64 | 2265.0 | 0.13 |
| 5 | 0 | -130 | -2735 | 487 | 1606 | 239 | 26420 | 16.93 | 16.93 | 16.93 | 4.62 | -52.36 | 2210.6 | 0.12 |
| apost= 13.85 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 35 | -156 | -4382 | 546 | 1844 | 81 | 27717 | 16.93 | 4.62 | 16.93 | 4.62 | -54.93 | 2319.2 | 0.13 |
| 4 | 35 | -135 | -4023 | 502 | 1666 | 73 | 25887 | 16.93 | 4.62 | 16.93 | 4.62 | -51.30 | 2166.0 | 0.12 |
| 5 | 35 | -130 | -3904 | 487 | 1606 | 71 | 25274 | 16.93 | 4.62 | 16.93 | 4.62 | -50.09 | 2114.7 | 0.12 |
| apost= 13.85 aant= 1.54 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 69 | -156 | -5656 | 546 | 1844 | -107 | 25985 | 4.62 | 16.93 | 16.93 | 4.62 | -51.49 | 2174.2 | 0.12 |
| 4 | 69 | -135 | -5218 | 502 | 1666 | -100 | 24291 | 4.62 | 16.93 | 16.93 | 4.62 | -48.14 | 2032.5 | 0.11 |
| 5 | 69 | -130 | -5072 | 487 | 1606 | -97 | 23725 | 4.62 | 16.93 | 16.93 | 4.62 | -47.02 | 1985.1 | 0.11 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 104 | -156 | -6931 | 546 | 1844 | -296 | 23813 | 4.62 | 16.93 | 16.93 | 4.62 | -47.19 | 1992.5 | 0.11 |
| 4 | 104 | -135 | -6414 | 502 | 1666 | -273 | 22283 | 4.62 | 16.93 | 16.93 | 4.62 | -44.16 | 1864.5 | 0.10 |
| 5 | 104 | -130 | -6241 | 487 | 1606 | -266 | 21772 | 4.62 | 16.93 | 16.93 | 4.62 | -43.15 | 1821.7 | 0.09 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 138 | -156 | -8205 | 546 | 1844 | -484 | 21201 | 4.62 | 16.93 | 16.93 | 4.62 | -42.01 | 1773.9 | 0.09 |
| 4 | 138 | -135 | -7609 | 501 | 1666 | -446 | 19863 | 4.62 | 16.93 | 16.93 | 4.62 | -39.36 | 1662.0 | 0.08 |
| 5 | 138 | -130 | -7409 | 487 | 1606 | -434 | 19416 | 4.62 | 16.93 | 16.93 | 4.62 | -38.48 | 1624.6 | 0.07 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 173 | -156 | -9479 | 546 | 1844 | -673 | 18149 | 4.62 | 16.93 | 16.93 | 4.62 | -35.97 | 1518.6 | 0.06 |
| 4 | 173 | -135 | -8804 | 502 | 1666 | -619 | 17030 | 4.62 | 16.93 | 16.93 | 4.62 | -19.51 | 164.9 | 0.00 |
| 5 | 173 | -130 | -8578 | 487 | 1606 | -602 | 16656 | 4.62 | 16.93 | 16.93 | 4.62 | -19.08 | 161.2 | 0.00 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 207 | -156 | -10753 | 546 | 1844 | -861 | 14657 | 4.62 | 16.93 | 16.93 | 4.62 | -16.79 | 141.9 | 0.00 |
| 4 | 207 | -135 | -9999 | 502 | 1666 | -793 | 13784 | 4.62 | 16.93 | 16.93 | 4.62 | -15.79 | 133.4 | 0.00 |
| 5 | 207 | -130 | -9746 | 487 | 1606 | -770 | 13493 | 4.62 | 16.93 | 16.93 | 4.62 | -15.46 | 130.6 | 0.00 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 242 | -156 | -12027 | 546 | 1844 | -1050 | 10725 | 4.62 | 16.93 | 16.93 | 4.62 | -12.29 | 103.8 | 0.00 |
| 4 | 242 | -135 | -11194 | 502 | 1666 | -966 | 10126 | 4.62 | 16.93 | 16.93 | 4.62 | -11.60 | 98.0 | 0.00 |
| 5 | 242 | -130 | -10915 | 487 | 1606 | -938 | 9927 | 4.62 | 16.93 | 16.93 | 4.62 | -11.37 | 96.1 | 0.00 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 276 | -156 | -13302 | 546 | 1844 | -1238 | 6354 | 4.62 | 16.93 | 16.93 | 9.24 | -7.13 | 61.0 | 0.00 |
| 4 | 276 | -135 | -12390 | 502 | 1666 | -1139 | 6056 | 4.62 | 16.93 | 16.93 | 9.24 | -6.80 | 58.1 | 0.00 |
| 5 | 276 | -130 | -12083 | 487 | 1606 | -1107 | 5958 | 4.62 | 16.93 | 16.93 | 9.24 | -6.69 | 57.2 | 0.00 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 311 | -156 | -14576 | 546 | 1844 | -1427 | 1542 | 4.62 | 16.93 | 16.93 | 9.24 | -1.73 | 14.8 | 0.00 |
| 4 | 311 | -135 | -13585 | 502 | 1666 | -1312 | 1573 | 4.62 | 16.93 | 16.93 | 9.24 | -1.77 | 15.1 | 0.00 |
| 5 | 311 | -130 | -13252 | 487 | 1606 | -1275 | 1584 | 4.62 | 16.93 | 16.93 | 9.24 | -1.78 | 15.2 | 0.00 |
| apost= 1.54 aant= 13.85 ainf= 13.85 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 345 | -156 | -15850 | 546 | 1844 | -1615 | -3709 | 4.62 | 16.93 | 9.24 | 16.93 | -4.16 | 35.6 | 0.00 |
| 4 | 345 | -135 | -14780 | 502 | 1666 | -1485 | -3323 | 4.62 | 16.93 | 9.24 | 16.93 | -3.73 | 31.9 | 0.00 |
| 5 | 345 | -130 | -14420 | 487 | 1606 | -1443 | -3192 | 4.62 | 16.93 | 9.24 | 16.93 | -3.58 | 30.6 | 0.00 |
| apost= 1.54 aant= 13.85 ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 3**  NI 14451  NF 15498  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.9600  5.6304  24.5904  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -591 | 12610 | -253 | -574 | -680 | -15030 | 3.08 | 9.24 | 4.62 | 9.24 | -60.76 | 2639.3 | 0.15 |
| 4 | 0 | -549 | 11700 | -238 | -538 | -636 | -13970 | 3.08 | 9.24 | 4.62 | 9.24 | -56.48 | 2453.1 | 0.13 |
| 5 | 0 | -535 | 11400 | -232 | -527 | -621 | -13620 | 3.08 | 9.24 | 4.62 | 9.24 | -55.06 | 2391.7 | 0.13 |
| apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 38 | -591 | 11685 | -253 | -574 | -585 | -10464 | 3.08 | 9.24 | 4.62 | 9.24 | -42.31 | 1837.5 | 0.09 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 38 | -549 | 10839 | -238 | -538 | -547 | -9733 | 3.08 | 9.24 | 4.62 | 9.24 | -39.35 | 1709.0 | 0.08 |
| 5 | 38 | -535 | 10560 | -232 | -527 | -534 | -9492 | 3.08 | 9.24 | 4.62 | 9.24 | -38.38 | 1666.8 | 0.07 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 75 | -591 | 10760 | -253 | -574 | -490 | -6246 | 3.08 | 9.24 | 4.62 | 9.24 | -14.94 | 126.1 | 0.00 |
| 4 | 75 | -549 | 9979 | -238 | -538 | -458 | -5819 | 3.08 | 9.24 | 4.62 | 9.24 | -13.92 | 117.5 | 0.00 |
| 5 | 75 | -535 | 9721 | -232 | -527 | -446 | -5680 | 3.08 | 9.24 | 4.62 | 9.24 | -13.59 | 114.7 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 113 | -591 | 9836 | -253 | -574 | -395 | -2375 | 3.08 | 9.24 | 3.08 | 9.24 | -5.75 | 48.2 | 0.00 |
| 4 | 113 | -549 | 9118 | -238 | -538 | -368 | -2229 | 3.08 | 9.24 | 3.08 | 9.24 | -5.40 | 45.2 | 0.00 |
| 5 | 113 | -535 | 8881 | -232 | -527 | -359 | -2184 | 3.08 | 9.24 | 3.08 | 9.24 | -5.29 | 44.3 | 0.00 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 150 | -591 | 8911 | -253 | -574 | -300 | 1148 | 3.08 | 9.24 | 9.24 | 3.08 | -2.78 | 23.3 | 0.00 |
| 4 | 150 | -549 | 8257 | -238 | -538 | -279 | 1038 | 3.08 | 9.24 | 9.24 | 3.08 | -2.51 | 21.1 | 0.00 |
| 5 | 150 | -535 | 8041 | -232 | -527 | -272 | 996 | 3.08 | 9.24 | 9.24 | 3.08 | -2.41 | 20.2 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 188 | -591 | 7986 | -253 | -574 | -205 | 4324 | 3.08 | 9.24 | 9.24 | 3.08 | -10.47 | 87.8 | 0.00 |
| 4 | 188 | -549 | 7397 | -238 | -538 | -189 | 3981 | 3.08 | 9.24 | 9.24 | 3.08 | -9.64 | 80.8 | 0.00 |
| 5 | 188 | -535 | 7202 | -232 | -527 | -184 | 3861 | 3.08 | 9.24 | 9.24 | 3.08 | -9.35 | 78.4 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 226 | -591 | 7061 | -253 | -574 | -110 | 7152 | 3.08 | 9.24 | 9.24 | 3.08 | -17.33 | 145.2 | 0.00 |
| 4 | 226 | -549 | 6536 | -238 | -538 | -100 | 6600 | 3.08 | 9.24 | 9.24 | 3.08 | -15.99 | 133.9 | 0.00 |
| 5 | 226 | -535 | 6362 | -232 | -527 | -97 | 6410 | 3.08 | 9.24 | 9.24 | 3.08 | -15.53 | 130.1 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 263 | -591 | 6136 | -253 | -574 | -15 | 9633 | 9.24 | 3.08 | 9.24 | 3.08 | -40.24 | 1698.0 | 0.08 |
| 4 | 263 | -549 | 5675 | -238 | -538 | -11 | 8895 | 9.24 | 3.08 | 9.24 | 3.08 | -37.16 | 1568.0 | 0.06 |
| 5 | 263 | -535 | 5522 | -232 | -527 | -10 | 8644 | 9.24 | 3.08 | 9.24 | 3.08 | -36.11 | 1523.6 | 0.06 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 301 | -591 | 5212 | -253 | -574 | 80 | 11766 | 9.24 | 3.08 | 9.24 | 3.08 | -49.15 | 2074.0 | 0.10 |
| 4 | 301 | -549 | 4814 | -238 | -538 | 79 | 10867 | 9.24 | 3.08 | 9.24 | 3.08 | -45.40 | 1915.5 | 0.09 |
| 5 | 301 | -535 | 4682 | -232 | -527 | 77 | 10562 | 9.24 | 3.08 | 9.24 | 3.08 | -44.12 | 1861.7 | 0.09 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | -591 | 4287 | -253 | -574 | 175 | 13552 | 9.24 | 3.08 | 9.24 | 3.08 | -56.61 | 2388.7 | 0.13 |
| 4 | 338 | -549 | 3954 | -238 | -538 | 168 | 12515 | 9.24 | 3.08 | 9.24 | 3.08 | -52.28 | 2206.1 | 0.11 |
| 5 | 338 | -535 | 3843 | -232 | -527 | 165 | 12164 | 9.24 | 3.08 | 9.24 | 3.08 | -50.81 | 2144.0 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 376 | -591 | 3362 | -253 | -574 | 270 | 14990 | 9.24 | 9.24 | 9.24 | 3.08 | -62.62 | 2642.2 | 0.15 |
| 4 | 376 | -549 | 3093 | -238 | -538 | 258 | 13840 | 9.24 | 9.24 | 9.24 | 3.08 | -57.82 | 2439.5 | 0.13 |
| 5 | 376 | -535 | 3003 | -232 | -527 | 252 | 13450 | 9.24 | 9.24 | 9.24 | 3.08 | -56.19 | 2370.8 | 0.13 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4** NI 15498 NF 15501 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -428 | -121 | -642 | 775 | -785 | 14680 | 9.24 | 9.24 | 9.24 | 3.08 | -61.32 | 2587.6 | 0.14 |
| 4 | 0 | -396 | -65 | -593 | 709 | -724 | 13550 | 9.24 | 9.24 | 9.24 | 3.08 | -56.60 | 2388.4 | 0.13 |
| 5 | 0 | -385 | -46 | -578 | 688 | -705 | 13180 | 9.24 | 9.24 | 9.24 | 3.08 | -55.06 | 2323.2 | 0.12 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -428 | -1014 | -642 | 775 | -552 | 14474 | 4.62 | 9.24 | 9.24 | 3.08 | -60.46 | 2551.3 | 0.14 |
| 4 | 36 | -396 | -896 | -593 | 709 | -509 | 13376 | 4.62 | 9.24 | 9.24 | 3.08 | -55.88 | 2357.7 | 0.13 |
| 5 | 36 | -385 | -857 | -578 | 688 | -495 | 13016 | 4.62 | 9.24 | 9.24 | 3.08 | -54.37 | 2294.3 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 73 | -428 | -1907 | -642 | 775 | -319 | 13944 | 4.62 | 9.24 | 9.24 | 3.08 | -58.25 | 2457.9 | 0.13 |
| 4 | 73 | -396 | -1728 | -593 | 709 | -293 | 12900 | 4.62 | 9.24 | 9.24 | 3.08 | -53.89 | 2273.8 | 0.12 |
| 5 | 73 | -385 | -1668 | -578 | 688 | -286 | 12557 | 4.62 | 9.24 | 9.24 | 3.08 | -52.46 | 2213.4 | 0.11 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 109 | -428 | -2799 | -642 | 775 | -86 | 13090 | 4.62 | 9.24 | 9.24 | 3.08 | -54.68 | 2307.3 | 0.12 |
| 4 | 109 | -396 | -2559 | -593 | 709 | -78 | 12122 | 4.62 | 9.24 | 9.24 | 3.08 | -50.64 | 2136.7 | 0.11 |
| 5 | 109 | -385 | -2479 | -578 | 688 | -76 | 11804 | 4.62 | 9.24 | 9.24 | 3.08 | -49.31 | 2080.7 | 0.10 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 145 | -428 | -3692 | -642 | 775 | 147 | 11912 | 9.24 | 4.62 | 9.24 | 3.08 | -49.76 | 2099.6 | 0.11 |
| 4 | 145 | -396 | -3391 | -593 | 709 | 138 | 11042 | 9.24 | 4.62 | 9.24 | 3.08 | -46.13 | 1946.4 | 0.09 |
| 5 | 145 | -385 | -3290 | -578 | 688 | 134 | 10757 | 9.24 | 4.62 | 9.24 | 3.08 | -44.94 | 1896.1 | 0.09 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 182 | -428 | -4585 | -642 | 775 | 379 | 10409 | 9.24 | 4.62 | 9.24 | 3.08 | -43.48 | 1834.8 | 0.09 |
| 4 | 182 | -396 | -4222 | -593 | 709 | 353 | 9661 | 9.24 | 4.62 | 9.24 | 3.08 | -40.36 | 1702.9 | 0.08 |
| 5 | 182 | -385 | -4101 | -578 | 688 | 344 | 9415 | 9.24 | 4.62 | 9.24 | 3.08 | -39.33 | 1659.6 | 0.07 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 218 | -428 | -5478 | -642 | 775 | 612 | 8583 | 9.24 | 4.62 | 9.24 | 3.08 | -35.85 | 1512.8 | 0.06 |
| 4 | 218 | -396 | -5054 | -593 | 709 | 568 | 7977 | 9.24 | 4.62 | 9.24 | 3.08 | -19.32 | 161.9 | 0.00 |
| 5 | 218 | -385 | -4912 | -578 | 688 | 554 | 7779 | 9.24 | 4.62 | 9.24 | 3.08 | -18.84 | 157.9 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 254 | -428 | -6371 | -642 | 775 | 845 | 6432 | 9.24 | 4.62 | 9.24 | 3.08 | -15.58 | 130.5 | 0.00 |
| 4 | 254 | -396 | -5885 | -593 | 709 | 784 | 5992 | 9.24 | 4.62 | 9.24 | 3.08 | -14.52 | 121.6 | 0.00 |
| 5 | 254 | -385 | -5723 | -578 | 688 | 764 | 5848 | 9.24 | 4.62 | 9.24 | 3.08 | -14.17 | 118.7 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 290 | -428 | -7263 | -641 | 775 | 1078 | 3957 | 9.24 | 4.62 | 9.24 | 4.62 | -9.47 | 79.9 | 0.00 |
| 4 | 290 | -396 | -6717 | -593 | 709 | 999 | 3705 | 9.24 | 4.62 | 9.24 | 4.62 | -8.86 | 74.8 | 0.00 |
| 5 | 290 | -385 | -6534 | -578 | 688 | 973 | 3623 | 9.24 | 4.62 | 9.24 | 4.62 | -8.67 | 73.2 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | -428 | -8156 | -642 | 775 | 1311 | 1158 | 9.24 | 4.62 | 9.24 | 4.62 | -2.77 | 23.4 | 0.00 |
| 4 | 327 | -396 | -7548 | -593 | 709 | 1215 | 1116 | 9.24 | 4.62 | 9.24 | 4.62 | -2.67 | 22.5 | 0.00 |
| 5 | 327 | -385 | -7345 | -578 | 688 | 1183 | 1103 | 9.24 | 4.62 | 9.24 | 4.62 | -2.64 | 22.3 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 363 | -428 | -9049 | -642 | 775 | 1544 | -1965 | 9.24 | 4.62 | 4.62 | 9.24 | -4.70 | 39.7 | 0.00 |
| 4 | 363 | -396 | -8380 | -593 | 709 | 1430 | -1775 | 9.24 | 4.62 | 4.62 | 9.24 | -4.25 | 35.8 | 0.00 |
| 5 | 363 | -385 | -8156 | -578 | 688 | 1393 | -1711 | 9.24 | 4.62 | 4.62 | 9.24 | -4.09 | 34.5 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 5** NI 14632 NF 15499 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.7650 5.5386 24.3036 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 1318 | 11540 | -90 | 436 | -222 | -1519 | 3.08 | 9.24 | 4.62 | 9.24 | -3.63 | 30.7 | 0.00 |
| 4 | 0 | 1262 | 10700 | -88 | 404 | -210 | -1419 | 3.08 | 9.24 | 4.62 | 9.24 | -3.40 | 28.7 | 0.00 |
| 5 | 0 | 1240 | 10420 | -87 | 393 | -206 | -1385 | 3.08 | 9.24 | 4.62 | 9.24 | -3.31 | 28.0 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 30 | 1318 | 10823 | -90 | 436 | -195 | 1781 | 3.08 | 9.24 | 9.24 | 4.62 | -4.26 | 36.0 | 0.00 |
| 4 | 30 | 1262 | 10032 | -88 | 404 | -184 | 1640 | 3.08 | 9.24 | 9.24 | 4.62 | -3.92 | 33.1 | 0.00 |
| 5 | 30 | 1240 | 9769 | -87 | 393 | -180 | 1595 | 3.08 | 9.24 | 9.24 | 4.62 | -3.82 | 32.2 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 59 | 1318 | 10106 | -90 | 436 | -169 | 4870 | 3.08 | 9.24 | 9.24 | 4.62 | -11.65 | 98.3 | 0.00 |
| 4 | 59 | 1262 | 9364 | -88 | 404 | -158 | 4502 | 3.08 | 9.24 | 9.24 | 4.62 | -10.77 | 90.9 | 0.00 |
| 5 | 59 | 1240 | 9117 | -87 | 393 | -154 | 4383 | 3.08 | 9.24 | 9.24 | 4.62 | -10.49 | 88.5 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 89 | 1318 | 9389 | -90 | 436 | -142 | 7747 | 3.08 | 9.24 | 9.24 | 3.08 | -18.77 | 157.2 | 0.00 |
| 4 | 89 | 1262 | 8696 | -88 | 404 | -132 | 7167 | 3.08 | 9.24 | 9.24 | 3.08 | -17.36 | 145.4 | 0.00 |
| 5 | 89 | 1240 | 8465 | -87 | 393 | -129 | 6978 | 3.08 | 9.24 | 9.24 | 3.08 | -16.90 | 141.6 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 118 | 1318 | 8672 | -90 | 436 | -115 | 10412 | 3.08 | 9.24 | 9.24 | 3.08 | -43.50 | 1835.3 | 0.09 |
| 4 | 118 | 1262 | 8028 | -88 | 404 | -106 | 9634 | 3.08 | 9.24 | 9.24 | 3.08 | -40.25 | 1698.2 | 0.08 |
| 5 | 118 | 1240 | 7814 | -87 | 393 | -103 | 9381 | 3.08 | 9.24 | 9.24 | 3.08 | -39.19 | 1653.5 | 0.07 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | 1318 | 7955 | -90 | 436 | -88 | 12866 | 3.08 | 9.24 | 9.24 | 3.08 | -53.75 | 2267.8 | 0.12 |
| 4 | 148 | 1262 | 7360 | -88 | 404 | -80 | 11905 | 3.08 | 9.24 | 9.24 | 3.08 | -49.73 | 2098.4 | 0.11 |
| 5 | 148 | 1240 | 7163 | -87 | 393 | -78 | 11592 | 3.08 | 9.24 | 9.24 | 3.08 | -48.42 | 2043.2 | 0.10 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 177 | 1318 | 7238 | -90 | 436 | -62 | 15108 | 3.08 | 9.24 | 9.24 | 3.08 | -63.11 | 2663.0 | 0.15 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 177 | 1262 | 6693 | -88 | 404 | -54 | 13978 | 3.08 | 9.24 | 9.24 | 3.08 | -58.39 | 2463.9 | 0.13 |
| 5 | 177 | 1240 | 6511 | -87 | 393 | -52 | 13610 | 3.08 | 9.24 | 9.24 | 3.08 | -56.85 | 2399.0 | 0.13 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 207 | 1318 | 6521 | -90 | 436 | -35 | 17138 | 3.08 | 3.08 | 10.78 | 3.08 | -67.71 | 2605.5 | 0.14 |
| 4 | 207 | 1262 | 6025 | -88 | 404 | -28 | 15854 | 3.08 | 3.08 | 10.78 | 3.08 | -62.64 | 2410.3 | 0.13 |
| 5 | 207 | 1240 | 5860 | -87 | 393 | -27 | 15436 | 3.08 | 3.08 | 10.78 | 3.08 | -60.99 | 2346.7 | 0.12 |

apost= -- aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 236 | 1318 | 5804 | -90 | 436 | -8 | 18957 | 9.24 | 3.08 | 10.78 | 3.08 | -74.90 | 2882.1 | 0.16 |
| 4 | 236 | 1262 | 5357 | -88 | 404 | -2 | 17533 | 9.24 | 3.08 | 10.78 | 3.08 | -69.27 | 2665.6 | 0.14 |
| 5 | 236 | 1240 | 5208 | -87 | 393 | -1 | 17070 | 9.24 | 3.08 | 10.78 | 3.08 | -67.44 | 2595.1 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | 1318 | 5087 | -90 | 436 | 18 | 20564 | 9.24 | 3.08 | 12.32 | 3.08 | -77.50 | 2751.3 | 0.14 |
| 4 | 266 | 1262 | 4689 | -88 | 404 | 24 | 19015 | 9.24 | 3.08 | 12.32 | 3.08 | -71.66 | 2544.1 | 0.13 |
| 5 | 266 | 1240 | 4557 | -87 | 393 | 25 | 18511 | 9.24 | 3.08 | 12.32 | 3.08 | -69.76 | 2476.6 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 1318 | 4370 | -90 | 436 | 45 | 21960 | 9.24 | 9.24 | 12.32 | 3.08 | -82.76 | 2938.1 | 0.15 |
| 4 | 295 | 1262 | 4021 | -88 | 404 | 50 | 20300 | 9.24 | 9.24 | 12.32 | 3.08 | -76.50 | 2716.0 | 0.14 |
| 5 | 295 | 1240 | 3905 | -87 | 393 | 50 | 19760 | 9.24 | 9.24 | 12.32 | 3.08 | -74.47 | 2643.7 | 0.14 |

apost= 6.16 aant= 6.16 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 6** NI 15499 NF 14636 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.7650 5.5386 24.3036 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 637 | -4804 | -177 | 410 | -137 | 21750 | 9.24 | 9.24 | 12.32 | 3.08 | -81.96 | 2910.0 | 0.15 |
| 4 | 0 | 630 | -4413 | -165 | 380 | -126 | 20110 | 9.24 | 9.24 | 12.32 | 3.08 | -75.78 | 2690.5 | 0.14 |
| 5 | 0 | 625 | -4283 | -162 | 371 | -124 | 19560 | 9.24 | 9.24 | 12.32 | 3.08 | -73.71 | 2617.0 | 0.13 |

apost= 6.16 aant= 6.16 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 27 | 637 | -5457 | -177 | 410 | -89 | 20372 | 3.08 | 9.24 | 12.32 | 3.08 | -76.77 | 2725.5 | 0.14 |
| 4 | 27 | 630 | -5022 | -165 | 380 | -81 | 18842 | 3.08 | 9.24 | 12.32 | 3.08 | -71.01 | 2521.0 | 0.13 |
| 5 | 27 | 625 | -4877 | -162 | 371 | -80 | 18330 | 3.08 | 9.24 | 12.32 | 3.08 | -69.08 | 2452.4 | 0.12 |

apost= -- aant= 6.16 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 54 | 637 | -6109 | -177 | 410 | -41 | 18818 | 3.08 | 9.24 | 10.78 | 3.08 | -74.35 | 2860.9 | 0.15 |
| 4 | 54 | 630 | -5630 | -165 | 380 | -37 | 17411 | 3.08 | 9.24 | 10.78 | 3.08 | -68.79 | 2647.1 | 0.14 |
| 5 | 54 | 625 | -5470 | -162 | 371 | -37 | 16940 | 3.08 | 9.24 | 10.78 | 3.08 | -66.93 | 2575.4 | 0.14 |

apost= -- aant= 6.16 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 81 | 637 | -6762 | -177 | 410 | 6 | 17088 | 9.24 | 3.08 | 9.24 | 3.08 | -71.39 | 3012.1 | 0.17 |
| 4 | 81 | 630 | -6239 | -165 | 380 | 7 | 15817 | 9.24 | 3.08 | 9.24 | 3.08 | -66.07 | 2788.0 | 0.16 |
| 5 | 81 | 625 | -6064 | -162 | 371 | 7 | 15391 | 9.24 | 3.08 | 9.24 | 3.08 | -64.29 | 2712.9 | 0.15 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 637 | -7414 | -177 | 410 | 54 | 15184 | 9.24 | 3.08 | 9.24 | 3.08 | -63.43 | 2676.4 | 0.15 |
| 4 | 107 | 630 | -6848 | -165 | 380 | 51 | 14059 | 9.24 | 3.08 | 9.24 | 3.08 | -58.73 | 2478.1 | 0.13 |
| 5 | 107 | 625 | -6658 | -162 | 371 | 50 | 13682 | 9.24 | 3.08 | 9.24 | 3.08 | -57.16 | 2411.7 | 0.13 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 134 | 637 | -8067 | -177 | 410 | 101 | 13104 | 9.24 | 3.08 | 9.24 | 3.08 | -54.74 | 2309.7 | 0.12 |
| 4 | 134 | 630 | -7457 | -165 | 380 | 96 | 12138 | 9.24 | 3.08 | 9.24 | 3.08 | -50.70 | 2139.5 | 0.11 |
| 5 | 134 | 625 | -7252 | -162 | 371 | 93 | 11814 | 9.24 | 3.08 | 9.24 | 3.08 | -49.35 | 2082.5 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 161 | 637 | -8720 | -177 | 410 | 149 | 10848 | 9.24 | 3.08 | 9.24 | 3.08 | -45.32 | 1912.2 | 0.09 |
| 4 | 161 | 630 | -8065 | -165 | 380 | 140 | 10053 | 9.24 | 3.08 | 9.24 | 3.08 | -42.00 | 1772.0 | 0.08 |
| 5 | 161 | 625 | -7845 | -162 | 371 | 137 | 9787 | 9.24 | 3.08 | 9.24 | 3.08 | -40.88 | 1725.1 | 0.08 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 188 | 637 | -9372 | -177 | 410 | 197 | 8417 | 9.24 | 3.08 | 9.24 | 4.62 | -34.03 | 1478.1 | 0.06 |
| 4 | 188 | 630 | -8674 | -165 | 380 | 184 | 7805 | 9.24 | 3.08 | 9.24 | 4.62 | -18.67 | 157.6 | 0.00 |
| 5 | 188 | 625 | -8439 | -162 | 371 | 180 | 7600 | 9.24 | 3.08 | 9.24 | 4.62 | -18.18 | 153.5 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 215 | 637 | -10025 | -177 | 410 | 244 | 5811 | 9.24 | 3.08 | 9.24 | 4.62 | -13.90 | 117.3 | 0.00 |
| 4 | 215 | 630 | -9283 | -165 | 380 | 228 | 5394 | 9.24 | 3.08 | 9.24 | 4.62 | -12.91 | 108.9 | 0.00 |
| 5 | 215 | 625 | -9033 | -162 | 371 | 224 | 5254 | 9.24 | 3.08 | 9.24 | 4.62 | -12.57 | 106.1 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 242 | 637 | -10677 | -177 | 410 | 292 | 3029 | 9.24 | 3.08 | 9.24 | 4.62 | -7.25 | 61.2 | 0.00 |
| 4 | 242 | 630 | -9891 | -165 | 380 | 273 | 2819 | 9.24 | 3.08 | 9.24 | 4.62 | -6.74 | 56.9 | 0.00 |
| 5 | 242 | 625 | -9626 | -162 | 371 | 267 | 2748 | 9.24 | 3.08 | 9.24 | 4.62 | -6.58 | 55.5 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 269 | 637 | -11330 | -177 | 410 | 340 | 72 | 9.24 | 3.08 | 9.24 | 4.62 | -0.17 | 1.5 | 0.00 |
| 4 | 269 | 630 | -10500 | -165 | 380 | 317 | 80 | 9.24 | 3.08 | 9.24 | 4.62 | -0.19 | 1.6 | 0.00 |
| 5 | 269 | 625 | -10220 | -162 | 371 | 310 | 83 | 9.24 | 3.08 | 9.24 | 4.62 | -0.20 | 1.7 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 7**  NI 14447  NF 15500  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.2200  5.7528  24.9728  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 664 | 12370 | 151 | 277 | 526 | -12820 | 9.24 | 3.08 | 4.62 | 9.24 | -51.83 | 2251.2 | 0.12 |
| 4 | 0 | 627 | 11500 | 136 | 255 | 478 | -11950 | 9.24 | 3.08 | 4.62 | 9.24 | -48.31 | 2098.4 | 0.11 |
| 5 | 0 | 615 | 11210 | 131 | 248 | 462 | -11660 | 9.24 | 3.08 | 4.62 | 9.24 | -47.14 | 2047.5 | 0.10 |

apost= 6.16 aant= --  ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | 664 | 11431 | 151 | 277 | 469 | -8346 | 9.24 | 3.08 | 4.62 | 9.24 | -33.74 | 1465.5 | 0.06 |
| 4 | 38 | 627 | 10626 | 136 | 255 | 427 | -7792 | 9.24 | 3.08 | 4.62 | 9.24 | -18.64 | 157.3 | 0.00 |
| 5 | 38 | 615 | 10357 | 131 | 248 | 413 | -7607 | 9.24 | 3.08 | 4.62 | 9.24 | -18.20 | 153.6 | 0.00 |

apost= 6.16 aant= --  ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 75 | 664 | 10493 | 151 | 277 | 413 | -4224 | 9.24 | 3.08 | 4.62 | 9.24 | -10.11 | 85.3 | 0.00 |
| 4 | 75 | 627 | 9752 | 136 | 255 | 376 | -3962 | 9.24 | 3.08 | 4.62 | 9.24 | -9.48 | 80.0 | 0.00 |
| 5 | 75 | 615 | 9505 | 131 | 248 | 364 | -3875 | 9.24 | 3.08 | 4.62 | 9.24 | -9.27 | 78.2 | 0.00 |

apost= 6.16 aant= --  ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 113 | 664 | 9554 | 151 | 277 | 356 | -456 | 9.24 | 3.08 | 3.08 | 9.24 | -1.10 | 9.3 | 0.00 |
| 4 | 113 | 627 | 8878 | 136 | 255 | 325 | -460 | 9.24 | 3.08 | 3.08 | 9.24 | -1.11 | 9.3 | 0.00 |
| 5 | 113 | 615 | 8652 | 131 | 248 | 315 | -463 | 9.24 | 3.08 | 3.08 | 9.24 | -1.12 | 9.4 | 0.00 |

apost= 6.16 aant= --  ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 150 | 664 | 8616 | 151 | 277 | 299 | 2959 | 9.24 | 3.08 | 9.24 | 3.08 | -7.17 | 60.1 | 0.00 |
| 4 | 150 | 627 | 8004 | 136 | 255 | 274 | 2713 | 9.24 | 3.08 | 9.24 | 3.08 | -6.57 | 55.1 | 0.00 |
| 5 | 150 | 615 | 7799 | 131 | 248 | 266 | 2629 | 9.24 | 3.08 | 9.24 | 3.08 | -6.37 | 53.4 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 188 | 664 | 7677 | 151 | 277 | 243 | 6022 | 9.24 | 3.08 | 9.24 | 3.08 | -14.59 | 122.2 | 0.00 |
| 4 | 188 | 627 | 7130 | 136 | 255 | 223 | 5557 | 9.24 | 3.08 | 9.24 | 3.08 | -13.46 | 112.8 | 0.00 |
| 5 | 188 | 615 | 6946 | 131 | 248 | 217 | 5400 | 9.24 | 3.08 | 9.24 | 3.08 | -13.08 | 109.6 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 226 | 664 | 6738 | 151 | 277 | 186 | 8731 | 9.24 | 3.08 | 9.24 | 3.08 | -36.47 | 1539.0 | 0.06 |
| 4 | 226 | 627 | 6255 | 136 | 255 | 172 | 8073 | 9.24 | 3.08 | 9.24 | 3.08 | -19.55 | 163.8 | 0.00 |
| 5 | 226 | 615 | 6094 | 131 | 248 | 168 | 7851 | 9.24 | 3.08 | 9.24 | 3.08 | -19.02 | 159.3 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 263 | 664 | 5800 | 151 | 277 | 130 | 11088 | 9.24 | 3.08 | 9.24 | 3.08 | -46.32 | 1954.4 | 0.10 |
| 4 | 263 | 627 | 5381 | 136 | 255 | 122 | 10260 | 9.24 | 3.08 | 9.24 | 3.08 | -42.86 | 1808.4 | 0.08 |
| 5 | 263 | 615 | 5241 | 131 | 248 | 119 | 9981 | 9.24 | 3.08 | 9.24 | 3.08 | -41.70 | 1759.4 | 0.08 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 301 | 664 | 4861 | 151 | 277 | 73 | 13092 | 9.24 | 3.08 | 9.24 | 3.08 | -54.69 | 2307.6 | 0.12 |
| 4 | 301 | 627 | 4507 | 136 | 255 | 71 | 12118 | 9.24 | 3.08 | 9.24 | 3.08 | -50.62 | 2136.1 | 0.11 |
| 5 | 301 | 615 | 4388 | 131 | 248 | 70 | 11791 | 9.24 | 3.08 | 9.24 | 3.08 | -49.26 | 2078.4 | 0.10 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | 664 | 3923 | 151 | 277 | 17 | 14742 | 9.24 | 3.08 | 9.24 | 3.08 | -61.58 | 2598.5 | 0.14 |
| 4 | 338 | 627 | 3633 | 136 | 255 | 20 | 13648 | 9.24 | 3.08 | 9.24 | 3.08 | -57.02 | 2405.8 | 0.13 |
| 5 | 338 | 615 | 3536 | 131 | 248 | 21 | 13281 | 9.24 | 3.08 | 9.24 | 3.08 | -55.48 | 2341.0 | 0.12 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 376 | 664 | 2984 | 151 | 277 | -40 | 16040 | 9.24 | 9.24 | 9.24 | 3.08 | -67.01 | 2827.3 | 0.16 |
| 4 | 376 | 627 | 2759 | 136 | 255 | -31 | 14850 | 9.24 | 9.24 | 9.24 | 3.08 | -62.03 | 2617.5 | 0.14 |
| 5 | 376 | 615 | 2683 | 131 | 248 | -28 | 14450 | 9.24 | 9.24 | 9.24 | 3.08 | -60.36 | 2547.0 | 0.14 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 8**  NI 15500  NF 14777  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.2200 5.7528 24.9728 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 837 | -2715 | 577 | -106 | 789 | 16230 | 9.24 | 9.24 | 9.24 | 3.08 | -67.80 | 2860.8 | 0.16 |
| 4 | 0 | 788 | -2470 | 533 | -95 | 729 | 15030 | 9.24 | 9.24 | 9.24 | 3.08 | -62.79 | 2649.3 | 0.15 |
| 5 | 0 | 772 | -2389 | 518 | -91 | 709 | 14620 | 9.24 | 9.24 | 9.24 | 3.08 | -61.07 | 2577.0 | 0.14 |
| apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 36 | 837 | -3622 | 577 | -106 | 580 | 15080 | 9.24 | 3.08 | 9.24 | 3.08 | -63.00 | 2658.1 | 0.15 |
| 4 | 36 | 788 | -3314 | 533 | -95 | 535 | 13980 | 9.24 | 3.08 | 9.24 | 3.08 | -58.40 | 2464.1 | 0.13 |
| 5 | 36 | 772 | -3212 | 518 | -91 | 520 | 13604 | 9.24 | 3.08 | 9.24 | 3.08 | -56.83 | 2397.9 | 0.13 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 73 | 837 | -4528 | 577 | -106 | 370 | 13601 | 9.24 | 3.08 | 9.24 | 3.08 | -56.82 | 2397.5 | 0.13 |
| 4 | 73 | 788 | -4158 | 533 | -95 | 342 | 12623 | 9.24 | 3.08 | 9.24 | 3.08 | -52.73 | 2225.0 | 0.12 |
| 5 | 73 | 772 | -4035 | 518 | -91 | 332 | 12289 | 9.24 | 3.08 | 9.24 | 3.08 | -51.33 | 2166.1 | 0.11 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 109 | 837 | -5435 | 577 | -106 | 160 | 11793 | 9.24 | 3.08 | 9.24 | 3.08 | -49.27 | 2078.8 | 0.10 |
| 4 | 109 | 788 | -5002 | 533 | -95 | 148 | 10960 | 9.24 | 3.08 | 9.24 | 3.08 | -45.78 | 1931.8 | 0.09 |
| 5 | 109 | 772 | -4858 | 518 | -91 | 144 | 10675 | 9.24 | 3.08 | 9.24 | 3.08 | -44.59 | 1881.6 | 0.09 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 145 | 837 | -6341 | 577 | -106 | -49 | 9656 | 3.08 | 9.24 | 9.24 | 3.08 | -40.34 | 1702.0 | 0.08 |
| 4 | 145 | 788 | -5846 | 533 | -95 | -46 | 8990 | 3.08 | 9.24 | 9.24 | 3.08 | -37.56 | 1584.7 | 0.07 |
| 5 | 145 | 772 | -5681 | 518 | -91 | -45 | 8762 | 3.08 | 9.24 | 9.24 | 3.08 | -36.60 | 1544.5 | 0.06 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 182 | 837 | -7248 | 577 | -106 | -259 | 7190 | 3.08 | 9.24 | 9.24 | 3.08 | -17.42 | 145.9 | 0.00 |
| 4 | 182 | 788 | -6690 | 533 | -95 | -239 | 6714 | 3.08 | 9.24 | 9.24 | 3.08 | -16.26 | 136.3 | 0.00 |
| 5 | 182 | 772 | -6505 | 518 | -91 | -233 | 6551 | 3.08 | 9.24 | 9.24 | 3.08 | -15.87 | 132.9 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 218 | 837 | -8154 | 577 | -106 | -469 | 4394 | 3.08 | 9.24 | 9.24 | 3.08 | -10.64 | 89.2 | 0.00 |
| 4 | 218 | 788 | -7534 | 533 | -95 | -433 | 4132 | 3.08 | 9.24 | 9.24 | 3.08 | -10.01 | 83.9 | 0.00 |
| 5 | 218 | 772 | -7328 | 518 | -91 | -421 | 4040 | 3.08 | 9.24 | 9.24 | 3.08 | -9.79 | 82.0 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 254 | 837 | -9061 | 577 | -106 | -678 | 1269 | 3.08 | 9.24 | 9.24 | 3.08 | -3.07 | 25.8 | 0.00 |
| 4 | 254 | 788 | -8378 | 533 | -95 | -626 | 1243 | 3.08 | 9.24 | 9.24 | 3.08 | -3.01 | 25.2 | 0.00 |
| 5 | 254 | 772 | -8151 | 518 | -91 | -609 | 1231 | 3.08 | 9.24 | 9.24 | 3.08 | -2.98 | 25.0 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 290 | 837 | -9967 | 577 | -106 | -888 | -2185 | 3.08 | 9.24 | 4.62 | 9.24 | -5.23 | 44.1 | 0.00 |
| 4 | 290 | 788 | -9222 | 533 | -95 | -820 | -1952 | 3.08 | 9.24 | 4.62 | 9.24 | -4.67 | 39.4 | 0.00 |
| 5 | 290 | 772 | -8974 | 518 | -91 | -798 | -1877 | 3.08 | 9.24 | 4.62 | 9.24 | -4.49 | 37.9 | 0.00 |
| apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 327 | 837 | -10874 | 577 | -106 | -1097 | -5968 | 3.08 | 9.24 | 4.62 | 9.24 | -14.28 | 120.5 | 0.00 |
| 4 | 327 | 788 | -10066 | 533 | -95 | -1013 | -5454 | 3.08 | 9.24 | 4.62 | 9.24 | -13.05 | 110.1 | 0.00 |
| 5 | 327 | 772 | -9797 | 518 | -91 | -986 | -5284 | 3.08 | 9.24 | 4.62 | 9.24 | -12.64 | 106.7 | 0.00 |
| apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 363 | 837 | -11780 | 577 | -106 | -1307 | -10080 | 3.08 | 9.24 | 4.62 | 9.24 | -40.75 | 1770.0 | 0.08 |
| 4 | 363 | 788 | -10910 | 533 | -95 | -1207 | -9262 | 3.08 | 9.24 | 4.62 | 9.24 | -37.45 | 1626.4 | 0.07 |
| 5 | 363 | 772 | -10620 | 518 | -91 | -1174 | -8990 | 3.08 | 9.24 | 4.62 | 9.24 | -36.35 | 1578.6 | 0.07 |
| apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 9** NI 14849 NF 15500 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 12.0250 5.6610 20.6860 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 1820 | 4774 | -125 | -18 | -182 | -3772 | 3.08 | 4.62 | 3.08 | 4.62 | -60.78 | 2424.1 | 0.16 |
| 4 | 0 | 1670 | 4382 | -113 | -19 | -165 | -3460 | 3.08 | 4.62 | 3.08 | 4.62 | -55.76 | 2223.6 | 0.14 |
| 5 | 0 | 1625 | 4252 | -109 | -19 | -159 | -3358 | 3.08 | 4.62 | 3.08 | 4.62 | -54.11 | 2158.0 | 0.13 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 1820 | 4020 | -125 | -18 | -136 | -2170 | 3.08 | 4.62 | 3.08 | 4.62 | -34.97 | 1394.5 | 0.07 |
| 4 | 36 | 1670 | 3690 | -113 | -19 | -123 | -1990 | 3.08 | 4.62 | 3.08 | 4.62 | -19.20 | 152.0 | 0.00 |
| 5 | 36 | 1625 | 3581 | -109 | -19 | -119 | -1931 | 3.08 | 4.62 | 3.08 | 4.62 | -18.64 | 147.5 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 73 | 1820 | 3267 | -125 | -18 | -91 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | -8.13 | 64.4 | 0.00 |
| 4 | 73 | 1670 | 2999 | -113 | -19 | -82 | -771 | 3.08 | 4.62 | 3.08 | 4.62 | -7.44 | 58.9 | 0.00 |
| 5 | 73 | 1625 | 2910 | -109 | -19 | -79 | -749 | 3.08 | 4.62 | 3.08 | 4.62 | -7.23 | 57.2 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 109 | 1820 | 2513 | -125 | -18 | -46 | 210 | 3.08 | 4.62 | 4.62 | 3.08 | -2.03 | 16.1 | 0.00 |
| 4 | 109 | 1670 | 2307 | -113 | -19 | -41 | 195 | 3.08 | 4.62 | 4.62 | 3.08 | -1.88 | 14.9 | 0.00 |
| 5 | 109 | 1625 | 2239 | -109 | -19 | -40 | 189 | 3.08 | 4.62 | 4.62 | 3.08 | -1.83 | 14.5 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 146 | 1820 | 1760 | -125 | -18 | -0 | 989 | 3.08 | 3.08 | 4.62 | 3.08 | -9.54 | 75.5 | 0.00 |
| 4 | 146 | 1670 | 1615 | -113 | -19 | -0 | 910 | 3.08 | 3.08 | 4.62 | 3.08 | -8.78 | 69.5 | 0.00 |
| 5 | 146 | 1625 | 1568 | -109 | -19 | -0 | 883 | 3.08 | 3.08 | 4.62 | 3.08 | -8.52 | 67.4 | 0.00 |

apost= --  aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 182 | 1820 | 1006 | -125 | -18 | 45 | 1493 | 4.62 | 3.08 | 4.62 | 3.08 | -14.41 | 114.0 | 0.00 |
| 4 | 182 | 1670 | 923 | -113 | -19 | 41 | 1372 | 4.62 | 3.08 | 4.62 | 3.08 | -13.24 | 104.8 | 0.00 |
| 5 | 182 | 1625 | 897 | -109 | -19 | 39 | 1331 | 4.62 | 3.08 | 4.62 | 3.08 | -12.85 | 101.7 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 219 | 1820 | 252 | -125 | -18 | 91 | 1722 | 4.62 | 3.08 | 4.62 | 3.08 | -16.62 | 131.6 | 0.00 |
| 4 | 219 | 1670 | 232 | -113 | -19 | 82 | 1582 | 4.62 | 3.08 | 4.62 | 3.08 | -15.27 | 120.9 | 0.00 |
| 5 | 219 | 1625 | 225 | -109 | -19 | 79 | 1536 | 4.62 | 3.08 | 4.62 | 3.08 | -14.82 | 117.3 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 255 | 1820 | -501 | -125 | -18 | 136 | 1677 | 4.62 | 3.08 | 4.62 | 3.08 | -16.18 | 128.1 | 0.00 |
| 4 | 255 | 1670 | -460 | -113 | -19 | 123 | 1541 | 4.62 | 3.08 | 4.62 | 3.08 | -14.87 | 117.7 | 0.00 |
| 5 | 255 | 1625 | -446 | -109 | -19 | 119 | 1496 | 4.62 | 3.08 | 4.62 | 3.08 | -14.44 | 114.3 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 291 | 1820 | -1255 | -125 | -18 | 181 | 1357 | 4.62 | 3.08 | 4.62 | 3.08 | -13.09 | 103.7 | 0.00 |
| 4 | 291 | 1670 | -1152 | -113 | -19 | 164 | 1247 | 4.62 | 3.08 | 4.62 | 3.08 | -12.03 | 95.3 | 0.00 |
| 5 | 291 | 1625 | -1117 | -109 | -19 | 158 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | -11.69 | 92.5 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 328 | 1820 | -2008 | -124 | -18 | 227 | 762 | 4.62 | 3.08 | 4.62 | 3.08 | -7.36 | 58.2 | 0.00 |
| 4 | 328 | 1670 | -1843 | -113 | -19 | 205 | 701 | 4.62 | 3.08 | 4.62 | 3.08 | -6.77 | 53.6 | 0.00 |
| 5 | 328 | 1625 | -1788 | -109 | -19 | 198 | 682 | 4.62 | 3.08 | 4.62 | 3.08 | -6.58 | 52.1 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 364 | 1820 | -2762 | -125 | -18 | 272 | -107 | 4.62 | 4.62 | 3.08 | 4.62 | -1.03 | 8.1 | 0.00 |
| 4 | 364 | 1670 | -2535 | -113 | -19 | 246 | -96 | 4.62 | 4.62 | 3.08 | 4.62 | -0.93 | 7.4 | 0.00 |
| 5 | 364 | 1625 | -2459 | -109 | -19 | 238 | -91 | 4.62 | 4.62 | 3.08 | 4.62 | -0.88 | 7.0 | 0.00 |

apost= 1.54 aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 10**  NI 15500  NF 15499  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.0250  5.6610  20.6860  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 2247 | 2936 | -297 | -210 | -557 | -490 | 4.62 | 4.62 | 3.08 | 4.62 | -4.72 | 37.4 | 0.00 |
| 4 | 0 | 2068 | 2694 | -274 | -196 | -514 | -446 | 4.62 | 4.62 | 3.08 | 4.62 | -4.30 | 34.1 | 0.00 |
| 5 | 0 | 2013 | 2613 | -266 | -192 | -499 | -430 | 4.62 | 4.62 | 3.08 | 4.62 | -4.15 | 32.8 | 0.00 |

apost= 1.54 aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 2247 | 2199 | -297 | -210 | -451 | 425 | 3.08 | 4.62 | 4.62 | 3.08 | -4.10 | 32.5 | 0.00 |
| 4 | 36 | 2068 | 2018 | -274 | -196 | -416 | 393 | 3.08 | 4.62 | 4.62 | 3.08 | -3.80 | 30.1 | 0.00 |
| 5 | 36 | 2013 | 1957 | -266 | -192 | -404 | 384 | 3.08 | 4.62 | 4.62 | 3.08 | -3.71 | 29.3 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 2247 | 1462 | -297 | -210 | -345 | 1077 | 3.08 | 4.62 | 4.62 | 3.08 | -10.40 | 82.3 | 0.00 |
| 4 | 71 | 2068 | 1341 | -274 | -196 | -319 | 992 | 3.08 | 4.62 | 4.62 | 3.08 | -9.57 | 75.8 | 0.00 |
| 5 | 71 | 2013 | 1300 | -266 | -192 | -310 | 964 | 3.08 | 4.62 | 4.62 | 3.08 | -9.31 | 73.7 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 2247 | 725 | -297 | -210 | -240 | 1467 | 3.08 | 4.62 | 4.62 | 3.08 | -14.16 | 112.1 | 0.00 |
| 4 | 107 | 2068 | 665 | -274 | -196 | -221 | 1349 | 3.08 | 4.62 | 4.62 | 3.08 | -13.02 | 103.1 | 0.00 |
| 5 | 107 | 2013 | 644 | -266 | -192 | -215 | 1310 | 3.08 | 4.62 | 4.62 | 3.08 | -12.65 | 100.1 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 2247 | -12 | -297 | -210 | -134 | 1594 | 3.08 | 4.62 | 4.62 | 3.08 | -15.39 | 121.8 | 0.00 |
| 4 | 142 | 2068 | -12 | -274 | -196 | -124 | 1466 | 3.08 | 4.62 | 4.62 | 3.08 | -14.14 | 112.0 | 0.00 |
| 5 | 142 | 2013 | -12 | -266 | -192 | -120 | 1423 | 3.08 | 4.62 | 4.62 | 3.08 | -13.73 | 108.7 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 2247 | -749 | -297 | -210 | -28 | 1459 | 3.08 | 4.62 | 4.62 | 3.08 | -14.08 | 111.5 | 0.00 |
| 4 | 178 | 2068 | -688 | -274 | -196 | -26 | 1341 | 3.08 | 4.62 | 4.62 | 3.08 | -12.94 | 102.5 | 0.00 |
| 5 | 178 | 2013 | -669 | -266 | -192 | -26 | 1302 | 3.08 | 4.62 | 4.62 | 3.08 | -12.56 | 99.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 214 | 2247 | -1485 | -297 | -210 | 78 | 1061 | 4.62 | 3.08 | 4.62 | 3.08 | -10.24 | 81.1 | 0.00 |
| 4 | 214 | 2068 | -1364 | -274 | -196 | 71 | 976 | 4.62 | 3.08 | 4.62 | 3.08 | -9.42 | 74.5 | 0.00 |
| 5 | 214 | 2013 | -1325 | -266 | -192 | 69 | 947 | 4.62 | 3.08 | 4.62 | 3.08 | -9.14 | 72.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 2247 | -2222 | -297 | -210 | 184 | 401 | 4.62 | 3.08 | 4.62 | 3.08 | -3.87 | 30.6 | 0.00 |
| 4 | 249 | 2068 | -2041 | -274 | -196 | 169 | 369 | 4.62 | 3.08 | 4.62 | 3.08 | -3.56 | 28.2 | 0.00 |
| 5 | 249 | 2013 | -1981 | -266 | -192 | 164 | 358 | 4.62 | 3.08 | 4.62 | 3.08 | -3.45 | 27.4 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 285 | 2247 | -2959 | -297 | -210 | 290 | -522 | 4.62 | 3.08 | 3.08 | 4.62 | -5.04 | 39.9 | 0.00 |
| 4 | 285 | 2068 | -2717 | -274 | -196 | 266 | -478 | 4.62 | 3.08 | 3.08 | 4.62 | -4.62 | 36.5 | 0.00 |
| 5 | 285 | 2013 | -2637 | -266 | -192 | 258 | -465 | 4.62 | 3.08 | 3.08 | 4.62 | -4.48 | 35.5 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 321 | 2247 | -3696 | -297 | -210 | 396 | -1707 | 4.62 | 3.08 | 3.08 | 4.62 | -16.48 | 130.4 | 0.00 |
| 4 | 321 | 2068 | -3394 | -274 | -196 | 364 | -1567 | 4.62 | 3.08 | 3.08 | 4.62 | -15.12 | 119.7 | 0.00 |
| 5 | 321 | 2013 | -3294 | -266 | -192 | 353 | -1521 | 4.62 | 3.08 | 3.08 | 4.62 | -14.68 | 116.2 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 356 | 2247 | -4433 | -297 | -210 | 502 | -3155 | 4.62 | 3.08 | 3.08 | 4.62 | -50.84 | 2027.6 | 0.12 |
| 4 | 356 | 2068 | -4070 | -274 | -196 | 461 | -2896 | 4.62 | 3.08 | 3.08 | 4.62 | -46.67 | 1861.1 | 0.11 |
| 5 | 356 | 2013 | -3950 | -266 | -192 | 448 | -2811 | 4.62 | 3.08 | 3.08 | 4.62 | -45.30 | 1806.5 | 0.10 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 11** NI 15499 NF 15498 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.7000 5.5080 20.2080 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 2161 | 4741 | 384 | -1 | 683 | -3181 | 4.62 | 3.08 | 3.08 | 4.62 | -51.26 | 2044.3 | 0.12 |
| 4 | 0 | 1991 | 4364 | 358 | 2 | 637 | -2920 | 4.62 | 3.08 | 3.08 | 4.62 | -47.05 | 1876.5 | 0.11 |
| 5 | 0 | 1938 | 4239 | 349 | 3 | 621 | -2833 | 4.62 | 3.08 | 3.08 | 4.62 | -45.65 | 1820.6 | 0.11 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | 2161 | 4043 | 384 | -1 | 551 | -1664 | 4.62 | 3.08 | 3.08 | 4.62 | -16.06 | 127.2 | 0.00 |
| 4 | 35 | 1991 | 3723 | 358 | 2 | 513 | -1524 | 4.62 | 3.08 | 3.08 | 4.62 | -14.71 | 116.4 | 0.00 |
| 5 | 35 | 1938 | 3617 | 349 | 3 | 501 | -1477 | 4.62 | 3.08 | 3.08 | 4.62 | -14.25 | 112.8 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 69 | 2161 | 3346 | 384 | -1 | 418 | -389 | 4.62 | 3.08 | 3.08 | 4.62 | -3.75 | 29.7 | 0.00 |
| 4 | 69 | 1991 | 3083 | 358 | 2 | 390 | -349 | 4.62 | 3.08 | 3.08 | 4.62 | -3.37 | 26.6 | 0.00 |
| 5 | 69 | 1938 | 2996 | 349 | 3 | 380 | -335 | 4.62 | 3.08 | 3.08 | 4.62 | -3.24 | 25.6 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 104 | 2161 | 2648 | 384 | -1 | 286 | 646 | 4.62 | 3.08 | 4.62 | 3.08 | -6.24 | 49.4 | 0.00 |
| 4 | 104 | 1991 | 2442 | 358 | 2 | 266 | 605 | 4.62 | 3.08 | 4.62 | 3.08 | -5.84 | 46.2 | 0.00 |
| 5 | 104 | 1938 | 2374 | 349 | 3 | 260 | 592 | 4.62 | 3.08 | 4.62 | 3.08 | -5.71 | 45.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 138 | 2161 | 1950 | 384 | -1 | 153 | 1440 | 4.62 | 3.08 | 4.62 | 3.08 | -13.90 | 110.0 | 0.00 |
| 4 | 138 | 1991 | 1802 | 358 | 2 | 142 | 1338 | 4.62 | 3.08 | 4.62 | 3.08 | -12.91 | 102.2 | 0.00 |
| 5 | 138 | 1938 | 1752 | 349 | 3 | 139 | 1304 | 4.62 | 3.08 | 4.62 | 3.08 | -12.59 | 99.6 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 173 | 2161 | 1253 | 384 | -1 | 20 | 1993 | 4.62 | 3.08 | 4.62 | 3.08 | -19.24 | 152.3 | 0.00 |
| 4 | 173 | 1991 | 1161 | 358 | 2 | 19 | 1849 | 4.62 | 3.08 | 4.62 | 3.08 | -17.85 | 141.3 | 0.00 |
| 5 | 173 | 1938 | 1130 | 349 | 3 | 18 | 1802 | 4.62 | 3.08 | 4.62 | 3.08 | -17.39 | 137.7 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 207 | 2161 | 555 | 384 | -1 | -112 | 2305 | 3.08 | 4.62 | 4.62 | 3.08 | -37.15 | 1481.5 | 0.07 |
| 4 | 207 | 1991 | 520 | 358 | 2 | -105 | 2140 | 3.08 | 4.62 | 4.62 | 3.08 | -34.48 | 1375.1 | 0.06 |
| 5 | 207 | 1938 | 509 | 349 | 3 | -102 | 2085 | 3.08 | 4.62 | 4.62 | 3.08 | -33.60 | 1339.9 | 0.06 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 242 | 2161 | -143 | 384 | -1 | -245 | 2377 | 3.08 | 4.62 | 4.62 | 3.08 | -38.30 | 1527.3 | 0.08 |
| 4 | 242 | 1991 | -120 | 358 | 2 | -228 | 2209 | 3.08 | 4.62 | 4.62 | 3.08 | -35.59 | 1419.5 | 0.07 |
| 5 | 242 | 1938 | -113 | 349 | 3 | -223 | 2153 | 3.08 | 4.62 | 4.62 | 3.08 | -34.70 | 1383.9 | 0.06 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 276 | 2161 | -841 | 384 | -1 | -377 | 2207 | 3.08 | 4.62 | 4.62 | 3.08 | -35.56 | 1418.3 | 0.07 |
| 4 | 276 | 1991 | -761 | 358 | 2 | -352 | 2057 | 3.08 | 4.62 | 4.62 | 3.08 | -33.14 | 1321.8 | 0.06 |
| 5 | 276 | 1938 | -735 | 349 | 3 | -344 | 2007 | 3.08 | 4.62 | 4.62 | 3.08 | -19.37 | 153.4 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 311 | 2161 | -1538 | 384 | -1 | -510 | 1796 | 3.08 | 4.62 | 4.62 | 3.08 | -17.34 | 137.3 | 0.00 |
| 4 | 311 | 1991 | -1401 | 358 | 2 | -476 | 1683 | 3.08 | 4.62 | 4.62 | 3.08 | -16.25 | 128.6 | 0.00 |
| 5 | 311 | 1938 | -1356 | 349 | 3 | -464 | 1646 | 3.08 | 4.62 | 4.62 | 3.08 | -15.89 | 125.8 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 345 | 2161 | -2236 | 384 | -1 | -643 | 1145 | 4.62 | 4.62 | 4.62 | 3.08 | -11.05 | 87.5 | 0.00 |
| 4 | 345 | 1991 | -2042 | 358 | 2 | -599 | 1089 | 4.62 | 4.62 | 4.62 | 3.08 | -10.51 | 83.2 | 0.00 |
| 5 | 345 | 1938 | -1978 | 349 | 3 | -585 | 1071 | 4.62 | 4.62 | 4.62 | 3.08 | -10.34 | 81.8 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 12**  NI 15498  NF 14579  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.7000  5.5080  20.2080  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 1772 | 1247 | 221 | 304 | 412 | 2494 | 4.62 | 4.62 | 4.62 | 3.08 | -40.19 | 1602.8 | 0.09 |
| 4 | 0 | 1636 | 1116 | 205 | 284 | 382 | 2337 | 4.62 | 4.62 | 4.62 | 3.08 | -37.66 | 1501.9 | 0.08 |
| 5 | 0 | 1592 | 1071 | 200 | 278 | 373 | 2285 | 4.62 | 4.62 | 4.62 | 3.08 | -36.82 | 1468.5 | 0.07 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 1772 | 521 | 221 | 304 | 333 | 2812 | 4.62 | 3.08 | 4.62 | 3.08 | -45.31 | 1807.0 | 0.10 |
| 4 | 36 | 1636 | 449 | 205 | 284 | 309 | 2618 | 4.62 | 3.08 | 4.62 | 3.08 | -42.19 | 1682.4 | 0.09 |
| 5 | 36 | 1592 | 424 | 200 | 278 | 301 | 2554 | 4.62 | 3.08 | 4.62 | 3.08 | -41.15 | 1641.1 | 0.09 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 72 | 1772 | -205 | 221 | 304 | 254 | 2869 | 4.62 | 3.08 | 4.62 | 3.08 | -46.23 | 1843.5 | 0.11 |
| 4 | 72 | 1636 | -218 | 205 | 284 | 235 | 2659 | 4.62 | 3.08 | 4.62 | 3.08 | -42.85 | 1709.1 | 0.10 |
| 5 | 72 | 1592 | -223 | 200 | 278 | 229 | 2590 | 4.62 | 3.08 | 4.62 | 3.08 | -41.73 | 1664.3 | 0.09 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 108 | 1772 | -931 | 221 | 304 | 174 | 2665 | 4.62 | 3.08 | 4.62 | 3.08 | -42.94 | 1712.4 | 0.10 |
| 4 | 108 | 1636 | -884 | 205 | 284 | 162 | 2461 | 4.62 | 3.08 | 4.62 | 3.08 | -39.66 | 1581.7 | 0.08 |
| 5 | 108 | 1592 | -870 | 200 | 278 | 157 | 2393 | 4.62 | 3.08 | 4.62 | 3.08 | -38.57 | 1538.1 | 0.08 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 144 | 1772 | -1657 | 221 | 304 | 95 | 2200 | 4.62 | 3.08 | 4.62 | 3.08 | -35.45 | 1413.6 | 0.07 |
| 4 | 144 | 1636 | -1551 | 205 | 284 | 88 | 2023 | 4.62 | 3.08 | 4.62 | 3.08 | -19.53 | 154.6 | 0.00 |
| 5 | 144 | 1592 | -1517 | 200 | 278 | 86 | 1965 | 4.62 | 3.08 | 4.62 | 3.08 | -18.96 | 150.1 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 180 | 1772 | -2384 | 221 | 304 | 16 | 1474 | 4.62 | 3.08 | 4.62 | 3.08 | -14.22 | 112.6 | 0.00 |
| 4 | 180 | 1636 | -2218 | 205 | 284 | 14 | 1346 | 4.62 | 3.08 | 4.62 | 3.08 | -12.99 | 102.9 | 0.00 |
| 5 | 180 | 1592 | -2164 | 200 | 278 | 14 | 1303 | 4.62 | 3.08 | 4.62 | 3.08 | -12.58 | 99.6 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 216 | 1772 | -3110 | 221 | 304 | -63 | 487 | 3.08 | 4.62 | 4.62 | 3.08 | -4.70 | 37.2 | 0.00 |
| 4 | 216 | 1636 | -2885 | 205 | 284 | -59 | 429 | 3.08 | 4.62 | 4.62 | 3.08 | -4.14 | 32.8 | 0.00 |
| 5 | 216 | 1592 | -2811 | 200 | 278 | -58 | 410 | 3.08 | 4.62 | 4.62 | 3.08 | -3.95 | 31.3 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 252 | 1772 | -3836 | 221 | 304 | -142 | -761 | 3.08 | 4.62 | 3.08 | 4.62 | -7.34 | 58.1 | 0.00 |
| 4 | 252 | 1636 | -3552 | 205 | 284 | -133 | -727 | 3.08 | 4.62 | 3.08 | 4.62 | -7.02 | 55.6 | 0.00 |
| 5 | 252 | 1592 | -3458 | 200 | 278 | -129 | -717 | 3.08 | 4.62 | 3.08 | 4.62 | -6.92 | 54.8 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 287 | 1772 | -4562 | 221 | 304 | -222 | -2269 | 3.08 | 4.62 | 3.08 | 4.62 | -36.57 | 1458.3 | 0.07 |
| 4 | 287 | 1636 | -4218 | 205 | 284 | -206 | -2123 | 3.08 | 4.62 | 3.08 | 4.62 | -34.21 | 1364.5 | 0.06 |
| 5 | 287 | 1592 | -4105 | 200 | 278 | -201 | -2075 | 3.08 | 4.62 | 3.08 | 4.62 | -33.44 | 1333.7 | 0.06 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 323 | 1772 | -5288 | 221 | 304 | -301 | -4039 | 3.08 | 4.62 | 3.08 | 4.62 | -65.08 | 2595.4 | 0.17 |
| 4 | 323 | 1636 | -4885 | 205 | 284 | -280 | -3759 | 3.08 | 4.62 | 3.08 | 4.62 | -60.57 | 2415.6 | 0.16 |
| 5 | 323 | 1592 | -4752 | 200 | 278 | -273 | -3666 | 3.08 | 4.62 | 3.08 | 4.62 | -59.08 | 2356.2 | 0.15 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 359 | 1772 | -6014 | 221 | 304 | -380 | -6069 | 3.08 | 4.62 | 4.62 | 7.70 | -77.84 | 2376.9 | 0.13 |
| 4 | 359 | 1636 | -5552 | 205 | 284 | -354 | -5634 | 3.08 | 4.62 | 4.62 | 7.70 | -72.26 | 2206.5 | 0.12 |
| 5 | 359 | 1592 | -5399 | 200 | 278 | -345 | -5490 | 3.08 | 4.62 | 4.62 | 7.70 | -70.41 | 2150.1 | 0.11 |

apost= -- aant= 1.54 ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 13** NI 14737 NF 14778 SEZ. Rp B= 40.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 5.5000 16.2500 7.6500 29.4000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 599 | 10740 | 349 | -253 | 1260 | -8357 | 7.70 | 3.08 | 4.62 | 7.70 | -53.72 | 2275.2 | 0.13 |
| 4 | 0 | 586 | 9911 | 324 | -233 | 1171 | -7733 | 7.70 | 3.08 | 4.62 | 7.70 | -49.71 | 2105.4 | 0.12 |
| 5 | 0 | 582 | 9634 | 315 | -227 | 1142 | -7524 | 7.70 | 3.08 | 4.62 | 7.70 | -48.37 | 2048.5 | 0.11 |

apost= 4.62 aant= -- ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | 599 | 8577 | 349 | -253 | 1003 | -1249 | 7.70 | 3.08 | 3.08 | 7.70 | -4.88 | 39.9 | 0.00 |
| 4 | 74 | 586 | 7917 | 324 | -233 | 933 | -1174 | 7.70 | 3.08 | 3.08 | 7.70 | -4.58 | 37.5 | 0.00 |
| 5 | 74 | 582 | 7696 | 315 | -227 | 910 | -1148 | 7.70 | 3.08 | 3.08 | 7.70 | -4.48 | 36.7 | 0.00 |

apost= 4.62 aant= -- ainf= -- asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | 599 | 6414 | 349 | -253 | 746 | 4267 | 7.70 | 3.08 | 7.70 | 3.08 | -16.66 | 136.4 | 0.00 |
| 4 | 147 | 586 | 5923 | 324 | -233 | 695 | 3918 | 7.70 | 3.08 | 7.70 | 3.08 | -15.30 | 125.2 | 0.00 |
| 5 | 147 | 582 | 5758 | 315 | -227 | 678 | 3802 | 7.70 | 3.08 | 7.70 | 3.08 | -14.84 | 121.5 | 0.00 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 221 | 599 | 4251 | 349 | -253 | 489 | 8191 | 7.70 | 3.08 | 7.70 | 3.08 | -54.68 | 2238.6 | 0.13 |
| 4 | 221 | 586 | 3929 | 324 | -233 | 456 | 7542 | 7.70 | 3.08 | 7.70 | 3.08 | -50.34 | 2061.1 | 0.12 |
| 5 | 221 | 582 | 3819 | 315 | -227 | 446 | 7326 | 7.70 | 3.08 | 7.70 | 3.08 | -48.90 | 2002.0 | 0.11 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 599 | 2088 | 349 | -253 | 232 | 10524 | 7.70 | 3.08 | 7.70 | 3.08 | -70.25 | 2875.9 | 0.18 |
| 4 | 294 | 586 | 1935 | 324 | -233 | 218 | 9698 | 7.70 | 3.08 | 7.70 | 3.08 | -64.74 | 2650.4 | 0.16 |
| 5 | 294 | 582 | 1881 | 315 | -227 | 214 | 9423 | 7.70 | 3.08 | 7.70 | 3.08 | -62.90 | 2575.1 | 0.16 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 368 | 599 | -75 | 349 | -253 | -25 | 11264 | 3.08 | 7.70 | 9.24 | 3.08 | -70.44 | 2584.2 | 0.15 |
| 4 | 368 | 586 | -59 | 324 | -233 | -20 | 10387 | 3.08 | 7.70 | 9.24 | 3.08 | -64.96 | 2383.0 | 0.13 |
| 5 | 368 | 582 | -57 | 315 | -227 | -18 | 10094 | 3.08 | 7.70 | 9.24 | 3.08 | -63.13 | 2315.8 | 0.13 |

apost= -- aant= 4.62 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 442 | 599 | -2238 | 349 | -253 | -282 | 10412 | 3.08 | 7.70 | 7.70 | 3.08 | -69.50 | 2845.4 | 0.18 |
| 4 | 442 | 586 | -2054 | 324 | -233 | -258 | 9608 | 3.08 | 7.70 | 7.70 | 3.08 | -64.13 | 2625.6 | 0.16 |
| 5 | 442 | 582 | -1995 | 315 | -227 | -251 | 9339 | 3.08 | 7.70 | 7.70 | 3.08 | -62.34 | 2552.1 | 0.15 |

apost= -- aant= 4.62 ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 515 | 599 | -4401 | 349 | -253 | -539 | 7968 | 3.08 | 7.70 | 7.70 | 3.08 | -53.19 | 2177.6 | 0.12 |
| 4 | 515 | 586 | -4048 | 324 | -233 | -496 | 7361 | 3.08 | 7.70 | 7.70 | 3.08 | -49.13 | 2011.6 | 0.11 |
| 5 | 515 | 582 | -3933 | 315 | -227 | -483 | 7157 | 3.08 | 7.70 | 7.70 | 3.08 | -47.78 | 1955.9 | 0.11 |

apost= -- aant= 4.62 ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 589 | 599 | -6564 | 349 | -253 | -796 | 3932 | 3.08 | 7.70 | 7.70 | 3.08 | -15.35 | 125.7 | 0.00 |
| 4 | 589 | 586 | -6042 | 324 | -233 | -735 | 3646 | 3.08 | 7.70 | 7.70 | 3.08 | -14.23 | 116.6 | 0.00 |
| 5 | 589 | 582 | -5872 | 315 | -227 | -715 | 3549 | 3.08 | 7.70 | 7.70 | 3.08 | -13.86 | 113.5 | 0.00 |

apost= -- aant= 4.62 ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 662 | 599 | -8727 | 349 | -253 | -1053 | -1695 | 3.08 | 7.70 | 3.08 | 7.70 | -6.62 | 54.2 | 0.00 |
| 4 | 662 | 586 | -8036 | 324 | -233 | -973 | -1536 | 3.08 | 7.70 | 3.08 | 7.70 | -6.00 | 49.1 | 0.00 |
| 5 | 662 | 582 | -7810 | 315 | -227 | -947 | -1485 | 3.08 | 7.70 | 3.08 | 7.70 | -5.80 | 47.5 | 0.00 |

apost= -- aant= 4.62 ainf= -- asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 736 | 599 | -10890 | 349 | -253 | -1310 | -8915 | 3.08 | 7.70 | 4.62 | 7.70 | -57.31 | 2427.2 | 0.14 |
| 4 | 736 | 586 | -10030 | 324 | -233 | -1211 | -8186 | 3.08 | 7.70 | 4.62 | 7.70 | -52.62 | 2228.7 | 0.13 |
| 5 | 736 | 582 | -9748 | 315 | -227 | -1179 | -7945 | 3.08 | 7.70 | 4.62 | 7.70 | -51.07 | 2163.1 | 0.12 |

apost= --  aant= 4.62 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 14**  NI 14739  NF 14776  SEZ.  Rp  B= 40.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  5.5000  16.2500  7.6500  29.4000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 71 | 10590 | 351 | 2 | 1302 | -7977 | 7.70 | 3.08 | 4.62 | 7.70 | -51.28 | 2171.8 | 0.12 |
| 4 | 0 | 67 | 9769 | 324 | 3 | 1201 | -7389 | 7.70 | 3.08 | 4.62 | 7.70 | -47.50 | 2011.7 | 0.11 |
| 5 | 0 | 65 | 9497 | 315 | 3 | 1167 | -7191 | 7.70 | 3.08 | 4.62 | 7.70 | -46.23 | 1957.8 | 0.11 |
| apost= 4.62 aant= -- ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 74 | 71 | 8426 | 351 | 2 | 1044 | -983 | 7.70 | 3.08 | 3.08 | 7.70 | -3.84 | 31.4 | 0.00 |
| 4 | 74 | 67 | 7774 | 324 | 3 | 963 | -934 | 7.70 | 3.08 | 3.08 | 7.70 | -3.65 | 29.8 | 0.00 |
| 5 | 74 | 65 | 7559 | 315 | 3 | 935 | -916 | 7.70 | 3.08 | 3.08 | 7.70 | -3.57 | 29.3 | 0.00 |
| apost= 4.62 aant= -- ainf= -- asup= 4.62 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 147 | 71 | 6262 | 351 | 2 | 786 | 4419 | 7.70 | 3.08 | 7.70 | 3.08 | -17.25 | 141.2 | 0.00 |
| 4 | 147 | 67 | 5779 | 324 | 3 | 725 | 4054 | 7.70 | 3.08 | 7.70 | 3.08 | -15.83 | 129.6 | 0.00 |
| 5 | 147 | 65 | 5620 | 315 | 3 | 704 | 3933 | 7.70 | 3.08 | 7.70 | 3.08 | -15.36 | 125.7 | 0.00 |
| apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 221 | 71 | 4098 | 351 | 2 | 528 | 8228 | 7.70 | 3.08 | 7.70 | 3.08 | -54.93 | 2248.7 | 0.13 |
| 4 | 221 | 67 | 3784 | 324 | 3 | 486 | 7573 | 7.70 | 3.08 | 7.70 | 3.08 | -50.55 | 2069.7 | 0.12 |
| 5 | 221 | 65 | 3682 | 315 | 3 | 472 | 7356 | 7.70 | 3.08 | 7.70 | 3.08 | -49.10 | 2010.2 | 0.11 |
| apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 294 | 71 | 1934 | 351 | 2 | 270 | 10446 | 7.70 | 3.08 | 7.70 | 3.08 | -69.73 | 2854.8 | 0.18 |
| 4 | 294 | 67 | 1789 | 324 | 3 | 248 | 9626 | 7.70 | 3.08 | 7.70 | 3.08 | -64.25 | 2630.5 | 0.16 |
| 5 | 294 | 65 | 1744 | 315 | 3 | 241 | 9352 | 7.70 | 3.08 | 7.70 | 3.08 | -62.43 | 2555.8 | 0.15 |
| apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 368 | 71 | -230 | 351 | 2 | 12 | 11072 | 7.70 | 3.08 | 7.70 | 3.08 | -73.91 | 3025.8 | 0.19 |
| 4 | 368 | 67 | -205 | 324 | 3 | 10 | 10210 | 7.70 | 3.08 | 7.70 | 3.08 | -68.15 | 2790.2 | 0.17 |
| 5 | 368 | 65 | -195 | 315 | 3 | 9 | 9923 | 7.70 | 3.08 | 7.70 | 3.08 | -66.23 | 2711.6 | 0.17 |
| apost= 4.62 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 442 | 71 | -2394 | 351 | 2 | -246 | 10106 | 3.08 | 7.70 | 7.70 | 3.08 | -67.46 | 2761.8 | 0.17 |
| 4 | 442 | 67 | -2200 | 324 | 3 | -228 | 9327 | 3.08 | 7.70 | 7.70 | 3.08 | -62.26 | 2548.8 | 0.15 |
| 5 | 442 | 65 | -2133 | 315 | 3 | -223 | 9066 | 3.08 | 7.70 | 7.70 | 3.08 | -60.52 | 2477.7 | 0.15 |
| apost= -- aant= 4.62 ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 515 | 71 | -4558 | 351 | 2 | -504 | 7548 | 3.08 | 7.70 | 7.70 | 3.08 | -50.38 | 2062.7 | 0.12 |
| 4 | 515 | 67 | -4195 | 324 | 3 | -466 | 6975 | 3.08 | 7.70 | 7.70 | 3.08 | -46.56 | 1906.3 | 0.10 |
| 5 | 515 | 65 | -4071 | 315 | 3 | -454 | 6784 | 3.08 | 7.70 | 7.70 | 3.08 | -45.28 | 1853.9 | 0.10 |
| apost= -- aant= 4.62 ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 589 | 71 | -6722 | 351 | 2 | -762 | 3398 | 3.08 | 7.70 | 7.70 | 3.08 | -13.27 | 108.6 | 0.00 |
| 4 | 589 | 67 | -6190 | 324 | 3 | -705 | 3157 | 3.08 | 7.70 | 7.70 | 3.08 | -12.32 | 100.9 | 0.00 |
| 5 | 589 | 65 | -6009 | 315 | 3 | -686 | 3075 | 3.08 | 7.70 | 7.70 | 3.08 | -12.01 | 98.3 | 0.00 |
| apost= -- aant= 4.62 ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 662 | 71 | -8886 | 351 | 2 | -1020 | -2344 | 3.08 | 7.70 | 3.08 | 7.70 | -9.15 | 74.9 | 0.00 |
| 4 | 662 | 67 | -8185 | 324 | 3 | -943 | -2130 | 3.08 | 7.70 | 3.08 | 7.70 | -8.31 | 68.1 | 0.00 |
| 5 | 662 | 65 | -7948 | 315 | 3 | -917 | -2060 | 3.08 | 7.70 | 3.08 | 7.70 | -8.04 | 65.8 | 0.00 |
| apost= -- aant= 4.62 ainf= -- asup= 4.62 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 736 | 71 | -11050 | 351 | 2 | -1278 | -9678 | 3.08 | 7.70 | 4.62 | 7.70 | -62.21 | 2634.9 | 0.16 |
| 4 | 736 | 67 | -10180 | 324 | 3 | -1181 | -8884 | 3.08 | 7.70 | 4.62 | 7.70 | -57.11 | 2418.7 | 0.14 |
| 5 | 736 | 65 | -9886 | 315 | 3 | -1149 | -8621 | 3.08 | 7.70 | 4.62 | 7.70 | -55.42 | 2347.1 | 0.14 |
| apost= -- aant= 4.62 ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 15**  NI 14850  NF 14892  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  8.3025  6.2730  19.3880  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 0 | 864 | 6711 | 97 | 12 | 360 | -5091 | 6.16 | 3.08 | 3.08 | 6.16 | -39.69 | 1731.3 | 0.08 |
| 4 | 0 | 782 | 6056 | 93 | 9 | 342 | -4583 | 6.16 | 3.08 | 3.08 | 6.16 | -35.73 | 1558.5 | 0.07 |
| 5 | 0 | 758 | 5838 | 92 | 8 | 337 | -4414 | 6.16 | 3.08 | 3.08 | 6.16 | -19.67 | 162.2 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | 864 | 5388 | 97 | 12 | 293 | -962 | 6.16 | 3.08 | 3.08 | 6.16 | -4.29 | 35.4 | 0.00 |
| 4 | 68 | 782 | 4861 | 93 | 9 | 279 | -858 | 6.16 | 3.08 | 3.08 | 6.16 | -3.82 | 31.5 | 0.00 |
| 5 | 68 | 758 | 4686 | 92 | 8 | 275 | -823 | 6.16 | 3.08 | 3.08 | 6.16 | -3.67 | 30.2 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 136 | 864 | 4065 | 97 | 12 | 227 | 2264 | 6.16 | 3.08 | 6.16 | 3.08 | -10.09 | 83.2 | 0.00 |
| 4 | 136 | 782 | 3667 | 93 | 9 | 215 | 2052 | 6.16 | 3.08 | 6.16 | 3.08 | -9.15 | 75.4 | 0.00 |
| 5 | 136 | 758 | 3534 | 92 | 8 | 212 | 1982 | 6.16 | 3.08 | 6.16 | 3.08 | -8.83 | 72.8 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 205 | 864 | 2742 | 97 | 12 | 160 | 4586 | 6.16 | 3.08 | 6.16 | 3.08 | -35.75 | 1559.7 | 0.07 |
| 4 | 205 | 782 | 2472 | 93 | 9 | 152 | 4147 | 6.16 | 3.08 | 6.16 | 3.08 | -18.48 | 152.4 | 0.00 |
| 5 | 205 | 758 | 2382 | 92 | 8 | 149 | 4000 | 6.16 | 3.08 | 6.16 | 3.08 | -17.83 | 147.0 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 273 | 864 | 1419 | 97 | 12 | 94 | 6006 | 6.16 | 3.08 | 6.16 | 3.08 | -46.82 | 2042.5 | 0.11 |
| 4 | 273 | 782 | 1277 | 93 | 9 | 88 | 5427 | 6.16 | 3.08 | 6.16 | 3.08 | -42.30 | 1845.4 | 0.09 |
| 5 | 273 | 758 | 1230 | 92 | 8 | 87 | 5233 | 6.16 | 3.08 | 6.16 | 3.08 | -40.79 | 1779.5 | 0.09 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 341 | 864 | 95 | 97 | 12 | 27 | 6523 | 6.16 | 3.08 | 6.16 | 3.08 | -50.85 | 2218.3 | 0.13 |
| 4 | 341 | 782 | 82 | 93 | 9 | 25 | 5891 | 6.16 | 3.08 | 6.16 | 3.08 | -45.92 | 2003.2 | 0.11 |
| 5 | 341 | 758 | 78 | 92 | 8 | 24 | 5679 | 6.16 | 3.08 | 6.16 | 3.08 | -44.27 | 1931.4 | 0.10 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 409 | 864 | -1228 | 97 | 12 | -39 | 6137 | 3.08 | 6.16 | 6.16 | 3.08 | -47.84 | 2087.0 | 0.12 |
| 4 | 409 | 782 | -1112 | 93 | 9 | -39 | 5539 | 3.08 | 6.16 | 6.16 | 3.08 | -43.18 | 1883.7 | 0.10 |
| 5 | 409 | 758 | -1073 | 92 | 8 | -39 | 5340 | 3.08 | 6.16 | 6.16 | 3.08 | -41.63 | 1815.9 | 0.09 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 478 | 864 | -2551 | 97 | 12 | -106 | 4848 | 3.08 | 6.16 | 6.16 | 3.08 | -37.79 | 1648.7 | 0.08 |
| 4 | 478 | 782 | -2307 | 93 | 9 | -102 | 4373 | 3.08 | 6.16 | 6.16 | 3.08 | -19.49 | 160.7 | 0.00 |
| 5 | 478 | 758 | -2225 | 92 | 8 | -102 | 4214 | 3.08 | 6.16 | 6.16 | 3.08 | -18.78 | 154.9 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 546 | 864 | -3874 | 97 | 12 | -172 | 2656 | 3.08 | 6.16 | 6.16 | 3.08 | -11.84 | 97.6 | 0.00 |
| 4 | 546 | 782 | -3502 | 93 | 9 | -166 | 2391 | 3.08 | 6.16 | 6.16 | 3.08 | -10.66 | 87.9 | 0.00 |
| 5 | 546 | 758 | -3377 | 92 | 8 | -164 | 2302 | 3.08 | 6.16 | 6.16 | 3.08 | -10.26 | 84.6 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 614 | 864 | -5197 | 97 | 12 | -239 | -439 | 3.08 | 6.16 | 3.08 | 6.16 | -1.96 | 16.1 | 0.00 |
| 4 | 614 | 782 | -4696 | 93 | 9 | -229 | -406 | 3.08 | 6.16 | 3.08 | 6.16 | -1.81 | 14.9 | 0.00 |
| 5 | 614 | 758 | -4529 | 92 | 8 | -227 | -396 | 3.08 | 6.16 | 3.08 | 6.16 | -1.76 | 14.5 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 682 | 864 | -6520 | 97 | 12 | -305 | -4437 | 3.08 | 6.16 | 3.08 | 6.16 | -19.78 | 163.1 | 0.00 |
| 4 | 682 | 782 | -5891 | 93 | 9 | -293 | -4019 | 3.08 | 6.16 | 3.08 | 6.16 | -17.91 | 147.7 | 0.00 |
| 5 | 682 | 758 | -5681 | 92 | 8 | -290 | -3880 | 3.08 | 6.16 | 3.08 | 6.16 | -17.29 | 142.6 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 16** NI 15525 NF 14443 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.4925 5.6610 16.1535 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | ---------- | | | ---------- | | | ---------- | | | | ---------- | | -- |
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 122 | 2795 | -71 | -194 | -142 | -939 | 3.08 | 4.62 | 3.08 | 4.62 | -9.06 | 71.7 | 0.00 |
| 4 | 0 | 112 | 2640 | -67 | -179 | -134 | -1105 | 3.08 | 4.62 | 3.08 | 4.62 | -10.66 | 84.4 | 0.00 |
| 5 | 0 | 107 | 2593 | -66 | -174 | -132 | -1169 | 3.08 | 4.62 | 3.08 | 4.62 | -11.28 | 89.3 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | 122 | 2198 | -71 | -194 | -115 | -436 | 3.08 | 4.62 | 3.08 | 4.62 | -4.21 | 33.3 | 0.00 |
| 4 | 37 | 112 | 2106 | -67 | -179 | -109 | -624 | 3.08 | 4.62 | 3.08 | 4.62 | -6.02 | 47.7 | 0.00 |
| 5 | 37 | 107 | 2080 | -66 | -174 | -107 | -695 | 3.08 | 4.62 | 3.08 | 4.62 | -6.71 | 53.1 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | 122 | 1601 | -71 | -194 | -89 | 266 | 3.08 | 4.62 | 4.62 | 4.62 | -2.51 | 20.2 | 0.00 |
| 4 | 74 | 112 | 1572 | -67 | -179 | -84 | 55 | 3.08 | 4.62 | 4.62 | 4.62 | -0.52 | 4.2 | 0.00 |

```
 5    74     107    1567     -66     -174     -83     -21     3.08   4.62   4.62   4.62     -0.20       1.6    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   111     122    1005     -71     -194     -63     747     3.08   4.62   4.62   3.08     -7.21      57.1    0.00
 4   111     112    1038     -67     -179     -59     537     3.08   4.62   4.62   3.08     -5.19      41.1    0.00
 5   111     107    1053     -66     -174     -58     463     3.08   4.62   4.62   3.08     -4.46      35.3    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   148     122     408     -71     -194     -36    1008     3.08   4.62   4.62   3.08     -9.73      77.0    0.00
 4   148     112     504     -67     -179     -35     822     3.08   4.62   4.62   3.08     -7.94      62.8    0.00
 5   148     107     540     -66     -174     -34     757     3.08   4.62   4.62   3.08     -7.31      57.8    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   185     122    -189     -71     -194     -10    1049     3.08   4.62   4.62   3.08    -10.12      80.1    0.00
 4   185     112     -30     -67     -179     -10     910     3.08   4.62   4.62   3.08     -8.78      69.5    0.00
 5   185     107      27     -66     -174     -10     862     3.08   4.62   4.62   3.08     -8.32      65.8    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   222     122    -786     -71     -194      16     868     4.62   3.08   4.62   3.08     -8.38      66.3    0.00
 4   222     112    -564     -67     -179      15     800     4.62   3.08   4.62   3.08     -7.72      61.1    0.00
 5   222     107    -486     -66     -174      15     777     4.62   3.08   4.62   3.08     -7.50      59.4    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   259     122   -1383     -71     -194      43     468     4.62   3.08   4.62   3.08     -4.51      35.7    0.00
 4   259     112   -1098     -67     -179      40     493     4.62   3.08   4.62   3.08     -4.76      37.7    0.00
 5   259     107    -999     -66     -174      39     503     4.62   3.08   4.62   3.08     -4.85      38.4    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   296     122   -1979     -71     -194      69    -153     4.62   3.08   4.62   4.62     -1.44      11.6    0.00
 4   296     112   -1632     -67     -179      65     -11     4.62   3.08   4.62   4.62     -0.11       0.9    0.00
 5   296     107   -1513     -66     -174      64      39     4.62   3.08   4.62   4.62     -0.36       2.9    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   333     122   -2576     -71     -194      95    -995     4.62   3.08   3.08   4.62     -9.60      76.0    0.00
 4   333     112   -2166     -67     -179      89    -713     4.62   3.08   3.08   4.62     -6.88      54.5    0.00
 5   333     107   -2026     -66     -174      88    -615     4.62   3.08   3.08   4.62     -5.93      47.0    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   369     122   -3173     -71     -194     122   -2057     4.62   3.08   3.08   4.62    -33.15    1321.9    0.06
 4   369     112   -2700     -67     -179     114   -1612     4.62   3.08   3.08   4.62    -15.56     123.2    0.00
 5   369     107   -2539     -66     -174     112   -1458     4.62   3.08   3.08   4.62    -14.07     111.4    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

ASTA NUM. 17     NI 15520    NF 15525    SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000   7.2090     5.4468  15.6558  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
      --     ---------------------    ------------------   ----------------------------      --------------      --
      cm             kg                      kg*m                       cm²                      kg/cm²          mm
-------------------------------------------------------------------------------------------------------------------

 3     0     419    2303    -177     -186    -327    -391     3.08   4.62   3.08   4.62     -3.77      29.9    0.00
 4     0     356    2143    -168     -174    -311    -498     3.08   4.62   3.08   4.62     -4.81      38.1    0.00
 5     0     334    2082    -165     -170    -306    -523     3.08   4.62   3.08   4.62     -5.05      39.9    0.00

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3    36     419    1747    -177     -186    -265     -17     3.08   4.62   3.08   4.62     -0.16       1.3    0.00
 4    36     356    1645    -168     -174    -251    -147     3.08   4.62   3.08   4.62     -1.42      11.2    0.00
 5    36     334    1603    -165     -170    -247    -180     3.08   4.62   3.08   4.62     -1.74      13.8    0.00

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3    71     419    1191    -177     -186    -202     505     3.08   4.62   4.62   3.08     -4.87      38.6    0.00
 4    71     356    1147    -168     -174    -191     349     3.08   4.62   4.62   3.08     -3.37      26.7    0.00
 5    71     334    1124    -165     -170    -188     304     3.08   4.62   4.62   3.08     -2.93      23.2    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   107     419     634    -177     -186    -139     829     3.08   4.62   4.62   3.08     -8.01      63.4    0.00
 4   107     356     648    -168     -174    -132     668     3.08   4.62   4.62   3.08     -6.44      51.0    0.00
 5   107     334     645    -165     -170    -130     618     3.08   4.62   4.62   3.08     -5.97      47.2    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   142     419      78    -177     -186     -76     956     3.08   4.62   4.62   3.08     -9.23      73.1    0.00
 4   142     356     150    -168     -174     -72     809     3.08   4.62   4.62   3.08     -7.81      61.8    0.00
 5   142     334     166    -165     -170     -71     763     3.08   4.62   4.62   3.08     -7.36      58.3    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )
```

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 419 | -478 | -177 | -186 | -13 | 885 | 3.08 | 4.62 | 4.62 | 3.08 | -8.54 | 67.6 | 0.00 |
| 4 | 178 | 356 | -348 | -168 | -174 | -12 | 774 | 3.08 | 4.62 | 4.62 | 3.08 | -7.47 | 59.2 | 0.00 |
| 5 | 178 | 334 | -312 | -165 | -170 | -12 | 737 | 3.08 | 4.62 | 4.62 | 3.08 | -7.11 | 56.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 419 | -1034 | -177 | -186 | 49 | 617 | 4.62 | 3.08 | 4.62 | 3.08 | -5.95 | 47.1 | 0.00 |
| 4 | 213 | 356 | -846 | -168 | -174 | 47 | 562 | 4.62 | 3.08 | 4.62 | 3.08 | -5.42 | 42.9 | 0.00 |
| 5 | 213 | 334 | -791 | -165 | -170 | 47 | 541 | 4.62 | 3.08 | 4.62 | 3.08 | -5.22 | 41.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 419 | -1590 | -177 | -186 | 112 | 150 | 4.62 | 3.08 | 4.62 | 3.08 | -1.45 | 11.5 | 0.00 |
| 4 | 249 | 356 | -1344 | -168 | -174 | 107 | 173 | 4.62 | 3.08 | 4.62 | 3.08 | -1.67 | 13.2 | 0.00 |
| 5 | 249 | 334 | -1270 | -165 | -170 | 105 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | -1.68 | 13.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 419 | -2147 | -177 | -186 | 175 | -513 | 4.62 | 3.08 | 3.08 | 4.62 | -4.96 | 39.2 | 0.00 |
| 4 | 284 | 356 | -1843 | -168 | -174 | 167 | -393 | 4.62 | 3.08 | 3.08 | 4.62 | -3.80 | 30.1 | 0.00 |
| 5 | 284 | 334 | -1749 | -165 | -170 | 164 | -362 | 4.62 | 3.08 | 3.08 | 4.62 | -3.49 | 27.7 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 419 | -2703 | -177 | -186 | 238 | -1375 | 4.62 | 3.08 | 3.08 | 4.62 | -13.27 | 105.0 | 0.00 |
| 4 | 320 | 356 | -2341 | -168 | -174 | 226 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | -10.97 | 86.9 | 0.00 |
| 5 | 320 | 334 | -2228 | -165 | -170 | 223 | -1068 | 4.62 | 3.08 | 3.08 | 4.62 | -10.31 | 81.6 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 419 | -3259 | -177 | -186 | 301 | -1945 | 4.62 | 3.08 | 3.08 | 4.62 | -18.77 | 148.6 | 0.00 |
| 4 | 355 | 356 | -2839 | -168 | -174 | 286 | -1631 | 4.62 | 3.08 | 3.08 | 4.62 | -15.74 | 124.6 | 0.00 |
| 5 | 355 | 334 | -2707 | -165 | -170 | 282 | -1539 | 4.62 | 3.08 | 3.08 | 4.62 | -14.85 | 117.6 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 18** NI 15521 NF 15520 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 76 | 4535 | 197 | -66 | 373 | -2183 | 4.62 | 3.08 | 3.08 | 4.62 | -35.17 | 1402.7 | 0.07 |
| 4 | 0 | 69 | 4217 | 180 | -62 | 342 | -2085 | 4.62 | 3.08 | 3.08 | 4.62 | -33.61 | 1340.2 | 0.06 |
| 5 | 0 | 65 | 4109 | 175 | -61 | 332 | -2049 | 4.62 | 3.08 | 3.08 | 4.62 | -33.01 | 1316.6 | 0.06 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | 76 | 3674 | 197 | -66 | 298 | -1299 | 4.62 | 3.08 | 3.08 | 4.62 | -12.54 | 99.3 | 0.00 |
| 4 | 38 | 69 | 3423 | 180 | -62 | 273 | -1263 | 4.62 | 3.08 | 3.08 | 4.62 | -12.19 | 96.5 | 0.00 |
| 5 | 38 | 65 | 3338 | 175 | -61 | 265 | -1246 | 4.62 | 3.08 | 3.08 | 4.62 | -12.03 | 95.2 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 76 | 76 | 2812 | 197 | -66 | 223 | -64 | 4.62 | 3.08 | 3.08 | 4.62 | -0.62 | 4.9 | 0.00 |
| 4 | 76 | 69 | 2630 | 180 | -62 | 205 | -110 | 4.62 | 3.08 | 3.08 | 4.62 | -1.06 | 8.4 | 0.00 |
| 5 | 76 | 65 | 2567 | 175 | -61 | 198 | -122 | 4.62 | 3.08 | 3.08 | 4.62 | -1.17 | 9.3 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 114 | 76 | 1951 | 197 | -66 | 148 | 843 | 4.62 | 3.08 | 4.62 | 3.08 | -8.14 | 64.4 | 0.00 |
| 4 | 114 | 69 | 1836 | 180 | -62 | 136 | 741 | 4.62 | 3.08 | 4.62 | 3.08 | -7.15 | 56.6 | 0.00 |
| 5 | 114 | 65 | 1796 | 175 | -61 | 132 | 710 | 4.62 | 3.08 | 4.62 | 3.08 | -6.85 | 54.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 152 | 76 | 1089 | 197 | -66 | 73 | 1423 | 4.62 | 3.08 | 4.62 | 3.08 | -13.73 | 108.7 | 0.00 |
| 4 | 152 | 69 | 1043 | 180 | -62 | 67 | 1290 | 4.62 | 3.08 | 4.62 | 3.08 | -12.45 | 98.5 | 0.00 |
| 5 | 152 | 65 | 1025 | 175 | -61 | 65 | 1247 | 4.62 | 3.08 | 4.62 | 3.08 | -12.04 | 95.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 190 | 76 | 228 | 197 | -66 | -1 | 1674 | 3.08 | 3.08 | 4.62 | 3.08 | -16.15 | 127.9 | 0.00 |
| 4 | 190 | 69 | 249 | 180 | -62 | -1 | 1536 | 3.08 | 3.08 | 4.62 | 3.08 | -14.82 | 117.3 | 0.00 |
| 5 | 190 | 65 | 254 | 175 | -61 | -1 | 1491 | 3.08 | 3.08 | 4.62 | 3.08 | -14.39 | 113.9 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 76 | -633 | 197 | -66 | -76 | 1597 | 3.08 | 4.62 | 4.62 | 3.08 | -15.41 | 122.0 | 0.00 |
| 4 | 229 | 69 | -545 | 180 | -62 | -70 | 1480 | 3.08 | 4.62 | 4.62 | 3.08 | -14.28 | 113.0 | 0.00 |
| 5 | 229 | 65 | -516 | 175 | -61 | -68 | 1441 | 3.08 | 4.62 | 4.62 | 3.08 | -13.91 | 110.1 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 267 | 76 | -1495 | 197 | -66 | -151 | 1191 | 3.08 | 4.62 | 4.62 | 3.08 | -11.50 | 91.0 | 0.00 |
| 4 | 267 | 69 | -1338 | 180 | -62 | -138 | 1121 | 3.08 | 4.62 | 4.62 | 3.08 | -10.82 | 85.7 | 0.00 |

```
 5   267      65   -1287     175      -61    -134    1098     3.08   4.62   4.62   3.08    -10.59      83.9    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   305      76   -2356     197      -66    -226     458     3.08   4.62   4.62   3.08     -4.42      35.0    0.00
 4   305      69   -2132     180      -62    -207     460     3.08   4.62   4.62   3.08     -4.44      35.2    0.00
 5   305      65   -2058     175      -61    -201     460     3.08   4.62   4.62   3.08     -4.44      35.2    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   343      76   -3218     197      -66    -301    -603     3.08   4.62   3.08   4.62     -5.82      46.1    0.00
 4   343      69   -2925     180      -62    -276    -503     3.08   4.62   3.08   4.62     -4.85      38.4    0.00
 5   343      65   -2829     175      -61    -267    -470     3.08   4.62   3.08   4.62     -4.54      35.9    0.00

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   381      76   -4079     197      -66    -376   -1381     3.08   4.62   3.08   4.62    -13.33     105.5    0.00
 4   381      69   -3719     180      -62    -344   -1210     3.08   4.62   3.08   4.62    -11.68      92.5    0.00
 5   381      65   -3600     175      -61    -334   -1155     3.08   4.62   3.08   4.62    -11.15      88.2    0.00

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

ASTA NUM. 19     NI 15522    NF 15521    SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.6100     5.9364  21.5464  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP       Sc          Sf      w
      --     ---------------------    ------------------   ----------------------      --------------      --
      cm              kg                      kg*m                    cm²                    kg/cm²         mm
-------------------------------------------------------------------------------------------------------------------

 3     0     -38    4692     -41       14     -71   -2887     3.08   4.62   3.08   4.62    -46.53    1855.5    0.11
 4     0     -18    4307     -42       13     -73   -2658     3.08   4.62   3.08   4.62    -42.83    1708.1    0.10
 5     0     -13    4179     -42       12     -74   -2580     3.08   4.62   3.08   4.62    -41.58    1658.1    0.09

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3    39     -38    3845     -41       14     -55   -1913     3.08   4.62   3.08   4.62    -18.47     146.2    0.00
 4    39     -18    3530     -42       13     -57   -1764     3.08   4.62   3.08   4.62    -17.03     134.8    0.00
 5    39     -13    3425     -42       12     -58   -1713     3.08   4.62   3.08   4.62    -16.53     130.9    0.00

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3    79     -38    2999     -41       14     -39    -568     3.08   4.62   3.08   4.62     -5.49      43.4    0.00
 4    79     -18    2753     -42       13     -40    -529     3.08   4.62   3.08   4.62     -5.11      40.4    0.00
 5    79     -13    2672     -42       12     -41    -515     3.08   4.62   3.08   4.62     -4.97      39.4    0.00

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   118     -38    2152     -41       14     -23     444     3.08   4.62   4.62   3.08     -4.28      33.9    0.00
 4   118     -18    1977     -42       13     -24     400     3.08   4.62   4.62   3.08     -3.86      30.6    0.00
 5   118     -13    1918     -42       12     -25     387     3.08   4.62   4.62   3.08     -3.73      29.6    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   157     -38    1305     -41       14      -7    1123     3.08   3.08   4.62   3.08    -10.84      85.8    0.00
 4   157     -18    1200     -42       13      -8    1024     3.08   3.08   4.62   3.08     -9.89      78.3    0.00
 5   157     -13    1165     -42       12      -8     993     3.08   3.08   4.62   3.08     -9.58      75.8    0.00

apost= --      aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   196     -38     459     -41       14       9    1470     4.62   3.08   4.62   3.08    -14.18     112.3    0.00
 4   196     -18     423     -42       13       9    1343     4.62   3.08   4.62   3.08    -12.96     102.6    0.00
 5   196     -13     411     -42       12       9    1302     4.62   3.08   4.62   3.08    -12.57      99.5    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   236     -38    -388     -41       14      25    1483     4.62   3.08   4.62   3.08    -14.32     113.3    0.00
 4   236     -18    -354     -42       13      25    1357     4.62   3.08   4.62   3.08    -13.10     103.7    0.00
 5   236     -13    -342     -42       12      25    1316     4.62   3.08   4.62   3.08    -12.70     100.5    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   275     -38   -1235     -41       14      41    1164     4.62   3.08   4.62   3.08    -11.24      89.0    0.00
 4   275     -18   -1131     -42       13      42    1065     4.62   3.08   4.62   3.08    -10.28      81.4    0.00
 5   275     -13   -1096     -42       12      42    1033     4.62   3.08   4.62   3.08     -9.97      78.9    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   314     -38   -2082     -41       14      57     513     4.62   3.08   4.62   3.08     -4.95      39.2    0.00
 4   314     -18   -1907     -42       13      58     468     4.62   3.08   4.62   3.08     -4.52      35.8    0.00
 5   314     -13   -1849     -42       12      58     455     4.62   3.08   4.62   3.08     -4.39      34.7    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   354     -38   -2928     -41       14      73    -472     4.62   3.08   3.08   4.62     -4.55      36.0    0.00
 4   354     -18   -2684     -42       13      74    -434     4.62   3.08   3.08   4.62     -4.19      33.1    0.00
 5   354     -13   -2603     -42       12      75    -420     4.62   3.08   3.08   4.62     -4.06      32.1    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )
```

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 393 | -38 | -3775 | -41 | 14 | 89 | -1223 | 4.62 | 3.08 | 3.08 | 4.62 | -11.80 | 93.4 | 0.00 |
| 4 | 393 | -18 | -3461 | -42 | 13 | 91 | -1122 | 4.62 | 3.08 | 3.08 | 4.62 | -10.83 | 85.7 | 0.00 |
| 5 | 393 | -13 | -3356 | -42 | 12 | 91 | -1088 | 4.62 | 3.08 | 3.08 | 4.62 | -10.50 | 83.1 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20** NI 15523 NF 15522 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -20 | 3942 | 60 | 127 | 111 | -1875 | 4.62 | 3.08 | 3.08 | 4.62 | -18.09 | 143.2 | 0.00 |
| 4 | 0 | 18 | 3618 | 48 | 117 | 89 | -1717 | 4.62 | 3.08 | 3.08 | 4.62 | -16.57 | 131.2 | 0.00 |
| 5 | 0 | 28 | 3510 | 43 | 114 | 81 | -1664 | 4.62 | 3.08 | 3.08 | 4.62 | -16.06 | 127.1 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -20 | 3187 | 60 | 127 | 89 | -1154 | 4.62 | 3.08 | 3.08 | 4.62 | -11.13 | 88.1 | 0.00 |
| 4 | 37 | 18 | 2925 | 48 | 117 | 71 | -1055 | 4.62 | 3.08 | 3.08 | 4.62 | -10.19 | 80.6 | 0.00 |
| 5 | 37 | 28 | 2838 | 43 | 114 | 65 | -1021 | 4.62 | 3.08 | 3.08 | 4.62 | -9.86 | 78.0 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -20 | 2433 | 60 | 127 | 67 | -119 | 4.62 | 3.08 | 3.08 | 4.62 | -1.15 | 9.1 | 0.00 |
| 4 | 74 | 18 | 2233 | 48 | 117 | 54 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | -1.02 | 8.1 | 0.00 |
| 5 | 74 | 28 | 2166 | 43 | 114 | 49 | -100 | 4.62 | 3.08 | 3.08 | 4.62 | -0.97 | 7.7 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -20 | 1678 | 60 | 127 | 45 | 638 | 4.62 | 3.08 | 4.62 | 3.08 | -6.15 | 48.7 | 0.00 |
| 4 | 110 | 18 | 1540 | 48 | 117 | 36 | 589 | 4.62 | 3.08 | 4.62 | 3.08 | -5.68 | 45.0 | 0.00 |
| 5 | 110 | 28 | 1494 | 43 | 114 | 33 | 573 | 4.62 | 3.08 | 4.62 | 3.08 | -5.53 | 43.8 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | -20 | 924 | 60 | 127 | 23 | 1117 | 4.62 | 3.08 | 4.62 | 3.08 | -10.78 | 85.3 | 0.00 |
| 4 | 147 | 18 | 847 | 48 | 117 | 19 | 1029 | 4.62 | 3.08 | 4.62 | 3.08 | -9.93 | 78.6 | 0.00 |
| 5 | 147 | 28 | 822 | 43 | 114 | 17 | 999 | 4.62 | 3.08 | 4.62 | 3.08 | -9.65 | 76.4 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 184 | -20 | 169 | 60 | 127 | 2 | 1318 | 3.08 | 3.08 | 4.62 | 3.08 | -12.72 | 100.7 | 0.00 |
| 4 | 184 | 18 | 154 | 48 | 117 | 1 | 1213 | 3.08 | 3.08 | 4.62 | 3.08 | -11.71 | 92.7 | 0.00 |
| 5 | 184 | 28 | 149 | 43 | 114 | 1 | 1178 | 3.08 | 3.08 | 4.62 | 3.08 | -11.37 | 90.0 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 221 | -20 | -586 | 60 | 127 | -20 | 1241 | 3.08 | 4.62 | 4.62 | 3.08 | -11.98 | 94.8 | 0.00 |
| 4 | 221 | 18 | -538 | 48 | 117 | -16 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | -11.03 | 87.3 | 0.00 |
| 5 | 221 | 28 | -523 | 43 | 114 | -15 | 1109 | 3.08 | 4.62 | 4.62 | 3.08 | -10.71 | 84.8 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 258 | -20 | -1340 | 60 | 127 | -42 | 887 | 3.08 | 4.62 | 4.62 | 3.08 | -8.56 | 67.7 | 0.00 |
| 4 | 258 | 18 | -1231 | 48 | 117 | -34 | 817 | 3.08 | 4.62 | 4.62 | 3.08 | -7.89 | 62.4 | 0.00 |
| 5 | 258 | 28 | -1195 | 43 | 114 | -31 | 793 | 3.08 | 4.62 | 4.62 | 3.08 | -7.66 | 60.6 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | -20 | -2095 | 60 | 127 | -64 | 254 | 3.08 | 4.62 | 4.62 | 3.08 | -2.45 | 19.4 | 0.00 |
| 4 | 295 | 18 | -1924 | 48 | 117 | -51 | 236 | 3.08 | 4.62 | 4.62 | 3.08 | -2.28 | 18.1 | 0.00 |
| 5 | 295 | 28 | -1867 | 43 | 114 | -47 | 230 | 3.08 | 4.62 | 4.62 | 3.08 | -2.22 | 17.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 331 | -20 | -2849 | 60 | 127 | -86 | -656 | 3.08 | 4.62 | 3.08 | 4.62 | -6.33 | 50.1 | 0.00 |
| 4 | 331 | 18 | -2616 | 48 | 117 | -69 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | -5.78 | 45.8 | 0.00 |
| 5 | 331 | 28 | -2539 | 43 | 114 | -63 | -581 | 3.08 | 4.62 | 3.08 | 4.62 | -5.61 | 44.4 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 368 | -20 | -3604 | 60 | 127 | -108 | -1303 | 3.08 | 4.62 | 3.08 | 4.62 | -12.58 | 99.6 | 0.00 |
| 4 | 368 | 18 | -3309 | 48 | 117 | -86 | -1194 | 3.08 | 4.62 | 3.08 | 4.62 | -11.52 | 91.2 | 0.00 |
| 5 | 368 | 28 | -3211 | 43 | 114 | -78 | -1158 | 3.08 | 4.62 | 3.08 | 4.62 | -11.18 | 88.5 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 21** NI 15524 NF 15523 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 4 | 3653 | -20 | 195 | -39 | -2646 | 3.08 | 4.62 | 3.08 | 4.62 | -42.64 | 1700.5 | 0.09 |
| 4 | 0 | 63 | 3246 | -18 | 183 | -35 | -2360 | 3.08 | 4.62 | 3.08 | 4.62 | -38.03 | 1516.7 | 0.08 |
| 5 | 0 | 80 | 3111 | -18 | 179 | -35 | -2265 | 3.08 | 4.62 | 3.08 | 4.62 | -36.50 | 1455.8 | 0.07 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 36 | 4 | 3110 | -20 | 195 | -31 | -1971 | 3.08 | 4.62 | 3.08 | 4.62 | -19.02 | 150.6 | 0.00 |
| 4 | 36 | 63 | 2764 | -18 | 183 | -29 | -1760 | 3.08 | 4.62 | 3.08 | 4.62 | -16.99 | 134.5 | 0.00 |
| 5 | 36 | 80 | 2649 | -18 | 179 | -28 | -1691 | 3.08 | 4.62 | 3.08 | 4.62 | -16.32 | 129.2 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 72 | 4 | 2568 | -20 | 195 | -24 | -944 | 3.08 | 4.62 | 3.08 | 4.62 | -9.12 | 72.2 | 0.00 |
| 4 | 72 | 63 | 2282 | -18 | 183 | -22 | -848 | 3.08 | 4.62 | 3.08 | 4.62 | -8.18 | 64.8 | 0.00 |
| 5 | 72 | 80 | 2188 | -18 | 179 | -22 | -816 | 3.08 | 4.62 | 3.08 | 4.62 | -7.88 | 62.4 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 108 | 4 | 2025 | -20 | 195 | -17 | -114 | 3.08 | 4.62 | 3.08 | 4.62 | -1.10 | 8.7 | 0.00 |
| 4 | 108 | 63 | 1801 | -18 | 183 | -15 | -110 | 3.08 | 4.62 | 3.08 | 4.62 | -1.06 | 8.4 | 0.00 |
| 5 | 108 | 80 | 1726 | -18 | 179 | -15 | -109 | 3.08 | 4.62 | 3.08 | 4.62 | -1.05 | 8.3 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 145 | 4 | 1483 | -20 | 195 | -9 | 520 | 3.08 | 3.08 | 4.62 | 3.08 | -5.02 | 39.8 | 0.00 |
| 4 | 145 | 63 | 1319 | -18 | 183 | -9 | 454 | 3.08 | 3.08 | 4.62 | 3.08 | -4.39 | 34.7 | 0.00 |
| 5 | 145 | 80 | 1265 | -18 | 179 | -8 | 432 | 3.08 | 3.08 | 4.62 | 3.08 | -4.17 | 33.0 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 181 | 4 | 940 | -20 | 195 | -2 | 958 | 3.08 | 3.08 | 4.62 | 3.08 | -9.25 | 73.2 | 0.00 |
| 4 | 181 | 63 | 837 | -18 | 183 | -2 | 844 | 3.08 | 3.08 | 4.62 | 3.08 | -8.15 | 64.5 | 0.00 |
| 5 | 181 | 80 | 803 | -18 | 179 | -2 | 806 | 3.08 | 3.08 | 4.62 | 3.08 | -7.78 | 61.6 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 217 | 4 | 397 | -20 | 195 | 5 | 1200 | 3.08 | 3.08 | 4.62 | 3.08 | -11.59 | 91.7 | 0.00 |
| 4 | 217 | 63 | 355 | -18 | 183 | 5 | 1060 | 3.08 | 3.08 | 4.62 | 3.08 | -10.23 | 81.0 | 0.00 |
| 5 | 217 | 80 | 341 | -18 | 179 | 5 | 1013 | 3.08 | 3.08 | 4.62 | 3.08 | -9.77 | 77.4 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 253 | 4 | -145 | -20 | 195 | 13 | 1246 | 3.08 | 3.08 | 4.62 | 3.08 | -12.03 | 95.2 | 0.00 |
| 4 | 253 | 63 | -127 | -18 | 183 | 11 | 1101 | 3.08 | 3.08 | 4.62 | 3.08 | -10.63 | 84.1 | 0.00 |
| 5 | 253 | 80 | -120 | -18 | 179 | 11 | 1053 | 3.08 | 3.08 | 4.62 | 3.08 | -10.16 | 80.4 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 289 | 4 | -688 | -20 | 195 | 20 | 1096 | 4.62 | 3.08 | 4.62 | 3.08 | -10.58 | 83.7 | 0.00 |
| 4 | 289 | 63 | -608 | -18 | 183 | 18 | 968 | 4.62 | 3.08 | 4.62 | 3.08 | -9.35 | 74.0 | 0.00 |
| 5 | 289 | 80 | -582 | -18 | 179 | 18 | 926 | 4.62 | 3.08 | 4.62 | 3.08 | -8.93 | 70.7 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 325 | 4 | -1230 | -20 | 195 | 27 | 749 | 4.62 | 3.08 | 4.62 | 3.08 | -7.23 | 57.2 | 0.00 |
| 4 | 325 | 63 | -1090 | -18 | 183 | 25 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | -6.38 | 50.5 | 0.00 |
| 5 | 325 | 80 | -1043 | -18 | 179 | 24 | 632 | 4.62 | 3.08 | 4.62 | 3.08 | -6.10 | 48.3 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 362 | 4 | -1773 | -20 | 195 | 34 | 206 | 4.62 | 3.08 | 4.62 | 3.08 | -1.99 | 15.8 | 0.00 |
| 4 | 362 | 63 | -1572 | -18 | 183 | 31 | 180 | 4.62 | 3.08 | 4.62 | 3.08 | -1.74 | 13.8 | 0.00 |
| 5 | 362 | 80 | -1505 | -18 | 179 | 31 | 171 | 4.62 | 3.08 | 4.62 | 3.08 | -1.65 | 13.1 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 22** NI 15529 NF 15524 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 3.4650 3.0294 9.4944 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -75 | 3375 | 139 | 642 | 254 | -4220 | 4.62 | 4.62 | 4.62 | 4.62 | -64.33 | 2702.1 | 0.18 |
| 4 | 0 | 22 | 3070 | 126 | 603 | 230 | -3890 | 4.62 | 4.62 | 4.62 | 4.62 | -59.30 | 2490.7 | 0.16 |
| 5 | 0 | 51 | 2968 | 121 | 590 | 221 | -3778 | 4.62 | 4.62 | 4.62 | 4.62 | -57.59 | 2419.1 | 0.16 |
| apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 40 | -75 | 2999 | 139 | 642 | 199 | -3465 | 4.62 | 4.62 | 4.62 | 4.62 | -52.83 | 2218.9 | 0.14 |
| 4 | 40 | 22 | 2730 | 126 | 603 | 180 | -3202 | 4.62 | 4.62 | 4.62 | 4.62 | -48.82 | 2050.7 | 0.13 |
| 5 | 40 | 51 | 2640 | 121 | 590 | 173 | -3113 | 4.62 | 4.62 | 4.62 | 4.62 | -47.47 | 1993.7 | 0.12 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 79 | -75 | 2624 | 139 | 642 | 144 | -2353 | 4.62 | 4.62 | 4.62 | 4.62 | -35.87 | 1506.7 | 0.08 |
| 4 | 79 | 22 | 2391 | 126 | 603 | 130 | -2189 | 4.62 | 4.62 | 4.62 | 4.62 | -33.38 | 1401.9 | 0.07 |
| 5 | 79 | 51 | 2313 | 121 | 590 | 125 | -2133 | 4.62 | 4.62 | 4.62 | 4.62 | -32.53 | 1366.2 | 0.06 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 119 | -75 | 2248 | 139 | 642 | 89 | -1389 | 4.62 | 4.62 | 4.62 | 4.62 | -13.09 | 105.2 | 0.00 |
| 4 | 119 | 22 | 2051 | 126 | 603 | 80 | -1311 | 4.62 | 4.62 | 4.62 | 4.62 | -12.34 | 99.3 | 0.00 |
| 5 | 119 | 51 | 1985 | 121 | 590 | 77 | -1283 | 4.62 | 4.62 | 4.62 | 4.62 | -12.09 | 97.2 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 158 | -75 | 1872 | 139 | 642 | 34 | -574 | 4.62 | 4.62 | 4.62 | 4.62 | -5.41 | 43.5 | 0.00 |
| 4 | 158 | 22 | 1711 | 126 | 603 | 31 | -566 | 4.62 | 4.62 | 4.62 | 4.62 | -5.33 | 42.9 | 0.00 |
| 5 | 158 | 51 | 1657 | 121 | 590 | 29 | -562 | 4.62 | 4.62 | 4.62 | 4.62 | -5.30 | 42.6 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 198 | -75 | 1497 | 139 | 642 | -21 | 92 | 4.62 | 4.62 | 4.62 | 4.62 | -0.87 | 7.0 | 0.00 |
| 4 | 198 | 22 | 1372 | 126 | 603 | -19 | 44 | 4.62 | 4.62 | 4.62 | 4.62 | -0.41 | 3.3 | 0.00 |
| 5 | 198 | 51 | 1330 | 121 | 590 | -19 | 29 | 4.62 | 4.62 | 4.62 | 4.62 | -0.27 | 2.2 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 237 | -75 | 1121 | 139 | 642 | -76 | 610 | 4.62 | 4.62 | 4.62 | 4.62 | -5.74 | 46.2 | 0.00 |
| 4 | 237 | 22 | 1032 | 126 | 603 | -69 | 519 | 4.62 | 4.62 | 4.62 | 4.62 | -4.89 | 39.3 | 0.00 |
| 5 | 237 | 51 | 1002 | 121 | 590 | -66 | 490 | 4.62 | 4.62 | 4.62 | 4.62 | -4.61 | 37.1 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 277 | -75 | 745 | 139 | 642 | -131 | 979 | 4.62 | 4.62 | 4.62 | 4.62 | -9.22 | 74.2 | 0.00 |
| 4 | 277 | 22 | 693 | 126 | 603 | -119 | 861 | 4.62 | 4.62 | 4.62 | 4.62 | -8.11 | 65.2 | 0.00 |
| 5 | 277 | 51 | 674 | 121 | 590 | -114 | 822 | 4.62 | 4.62 | 4.62 | 4.62 | -7.74 | 62.2 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 317 | -75 | 370 | 139 | 642 | -186 | 1200 | 4.62 | 4.62 | 4.62 | 4.62 | -11.30 | 90.9 | 0.00 |
| 4 | 317 | 22 | 353 | 126 | 603 | -168 | 1067 | 4.62 | 4.62 | 4.62 | 4.62 | -10.05 | 80.9 | 0.00 |
| 5 | 317 | 51 | 347 | 121 | 590 | -162 | 1024 | 4.62 | 4.62 | 4.62 | 4.62 | -9.64 | 77.6 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 356 | -75 | -6 | 139 | 642 | -241 | 1272 | 4.62 | 4.62 | 4.62 | 4.62 | -11.98 | 96.3 | 0.00 |
| 4 | 356 | 22 | 13 | 126 | 603 | -218 | 1140 | 4.62 | 4.62 | 4.62 | 4.62 | -10.74 | 86.4 | 0.00 |
| 5 | 356 | 51 | 19 | 121 | 590 | -210 | 1096 | 4.62 | 4.62 | 4.62 | 4.62 | -10.32 | 83.0 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 396 | -75 | -382 | 139 | 642 | -296 | 1195 | 4.62 | 4.62 | 4.62 | 4.62 | -11.26 | 90.5 | 0.00 |
| 4 | 396 | 22 | -326 | 126 | 603 | -268 | 1078 | 4.62 | 4.62 | 4.62 | 4.62 | -10.15 | 81.7 | 0.00 |
| 5 | 396 | 51 | -309 | 121 | 590 | -258 | 1039 | 4.62 | 4.62 | 4.62 | 4.62 | -9.79 | 78.7 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 23** NI 15148 NF 15529 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 3.4650 3.0294 9.4944 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 206 | -60 | 308 | -216 | 637 | 2301 | 4.62 | 3.08 | 4.62 | 3.08 | -37.08 | 1478.7 | 0.07 |
| 4 | 0 | 309 | -314 | 297 | -204 | 615 | 2555 | 4.62 | 3.08 | 4.62 | 3.08 | -41.17 | 1642.0 | 0.09 |
| 5 | 0 | 339 | -393 | 293 | -200 | 607 | 2630 | 4.62 | 3.08 | 4.62 | 3.08 | -42.38 | 1690.2 | 0.09 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 41 | 206 | -448 | 308 | -216 | 511 | 2197 | 4.62 | 3.08 | 4.62 | 3.08 | -35.41 | 1412.0 | 0.07 |
| 4 | 41 | 309 | -665 | 297 | -204 | 493 | 2355 | 4.62 | 3.08 | 4.62 | 3.08 | -37.95 | 1513.5 | 0.08 |
| 5 | 41 | 339 | -732 | 293 | -200 | 487 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | -38.68 | 1542.5 | 0.08 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 82 | 206 | -836 | 308 | -216 | 385 | 1935 | 4.62 | 3.08 | 4.62 | 3.08 | -18.67 | 147.8 | 0.00 |
| 4 | 82 | 309 | -1015 | 297 | -204 | 372 | 2012 | 4.62 | 3.08 | 4.62 | 3.08 | -19.42 | 153.7 | 0.00 |
| 5 | 82 | 339 | -1070 | 293 | -200 | 367 | 2032 | 4.62 | 3.08 | 4.62 | 3.08 | -19.61 | 155.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 123 | 206 | -1224 | 308 | -216 | 259 | 1514 | 4.62 | 3.08 | 4.62 | 3.08 | -14.61 | 115.7 | 0.00 |
| 4 | 123 | 309 | -1366 | 297 | -204 | 250 | 1525 | 4.62 | 3.08 | 4.62 | 3.08 | -14.72 | 116.5 | 0.00 |
| 5 | 123 | 339 | -1409 | 293 | -200 | 247 | 1526 | 4.62 | 3.08 | 4.62 | 3.08 | -14.72 | 116.6 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 206 | -1612 | 308 | -216 | 133 | 935 | 4.62 | 3.08 | 4.62 | 3.08 | -9.02 | 71.4 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 163 | 309 | -1717 | 297 | -204 | 129 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | -8.64 | 68.4 | 0.00 |
| 5 | 163 | 339 | -1747 | 293 | -200 | 128 | 881 | 4.62 | 3.08 | 4.62 | 3.08 | -8.50 | 67.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 204 | 206 | -2000 | 308 | -216 | 7 | 197 | 3.08 | 3.08 | 4.62 | 3.08 | -1.90 | 15.0 | 0.00 |
| 4 | 204 | 309 | -2068 | 297 | -204 | 8 | 122 | 3.08 | 3.08 | 4.62 | 3.08 | -1.18 | 9.3 | 0.00 |
| 5 | 204 | 339 | -2086 | 293 | -200 | 8 | 98 | 3.08 | 3.08 | 4.62 | 3.08 | -0.94 | 7.5 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 245 | 206 | -2388 | 308 | -216 | -118 | -700 | 3.08 | 4.62 | 3.08 | 4.62 | -6.75 | 53.5 | 0.00 |
| 4 | 245 | 309 | -2419 | 297 | -204 | -114 | -795 | 3.08 | 4.62 | 3.08 | 4.62 | -7.67 | 60.7 | 0.00 |
| 5 | 245 | 339 | -2424 | 293 | -200 | -112 | -824 | 3.08 | 4.62 | 3.08 | 4.62 | -7.95 | 62.9 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 286 | 206 | -2776 | 308 | -216 | -244 | -1755 | 3.08 | 4.62 | 3.08 | 4.62 | -16.94 | 134.1 | 0.00 |
| 4 | 286 | 309 | -2770 | 297 | -204 | -235 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | -17.90 | 141.7 | 0.00 |
| 5 | 286 | 339 | -2763 | 293 | -200 | -232 | -1883 | 3.08 | 4.62 | 3.08 | 4.62 | -18.18 | 143.9 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 206 | -3164 | 308 | -216 | -370 | -2968 | 3.08 | 4.62 | 3.08 | 4.62 | -47.83 | 1907.6 | 0.11 |
| 4 | 327 | 309 | -3120 | 297 | -204 | -357 | -3058 | 3.08 | 4.62 | 3.08 | 4.62 | -49.28 | 1965.3 | 0.12 |
| 5 | 327 | 339 | -3101 | 293 | -200 | -352 | -3081 | 3.08 | 4.62 | 3.08 | 4.62 | -49.65 | 1980.1 | 0.12 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 368 | 206 | -3552 | 308 | -216 | -496 | -4340 | 3.08 | 4.62 | 3.08 | 4.62 | -69.94 | 2789.3 | 0.19 |
| 4 | 368 | 309 | -3471 | 297 | -204 | -478 | -4405 | 3.08 | 4.62 | 3.08 | 4.62 | -70.98 | 2830.8 | 0.19 |
| 5 | 368 | 339 | -3440 | 293 | -200 | -472 | -4417 | 3.08 | 4.62 | 3.08 | 4.62 | -71.18 | 2838.9 | 0.19 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 409 | 206 | -3940 | 308 | -216 | -622 | -5280 | 3.08 | 4.62 | 3.08 | 6.16 | -76.96 | 2573.7 | 0.15 |
| 4 | 409 | 309 | -3822 | 297 | -204 | -599 | -5322 | 3.08 | 4.62 | 3.08 | 6.16 | -77.56 | 2594.1 | 0.15 |
| 5 | 409 | 339 | -3778 | 293 | -200 | -592 | -5325 | 3.08 | 4.62 | 3.08 | 6.16 | -77.62 | 2595.8 | 0.15 |

apost= -- aant= 1.54 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 24** NI 15517 NF 14444 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.4925 5.6610 16.1535 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -- | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 954 | 1674 | -149 | 379 | -291 | 208 | 3.08 | 4.62 | 4.62 | 3.08 | -2.01 | 15.9 | 0.00 |
| 4 | 0 | 904 | 1507 | -141 | 325 | -277 | 174 | 3.08 | 4.62 | 4.62 | 3.08 | -1.68 | 13.3 | 0.00 |
| 5 | 0 | 889 | 1451 | -139 | 306 | -273 | 161 | 3.08 | 4.62 | 4.62 | 3.08 | -1.55 | 12.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | 954 | 1077 | -149 | 379 | -236 | 716 | 3.08 | 4.62 | 4.62 | 3.08 | -6.91 | 54.7 | 0.00 |
| 4 | 37 | 904 | 973 | -141 | 325 | -224 | 632 | 3.08 | 4.62 | 4.62 | 3.08 | -6.10 | 48.3 | 0.00 |
| 5 | 37 | 889 | 938 | -139 | 306 | -221 | 602 | 3.08 | 4.62 | 4.62 | 3.08 | -5.81 | 46.0 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | 954 | 481 | -149 | 379 | -181 | 1004 | 3.08 | 4.62 | 4.62 | 3.08 | -9.69 | 76.7 | 0.00 |
| 4 | 74 | 904 | 439 | -141 | 325 | -172 | 893 | 3.08 | 4.62 | 4.62 | 3.08 | -8.62 | 68.2 | 0.00 |
| 5 | 74 | 889 | 425 | -139 | 306 | -170 | 854 | 3.08 | 4.62 | 4.62 | 3.08 | -8.24 | 65.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 111 | 954 | -116 | -149 | 379 | -126 | 1072 | 3.08 | 4.62 | 4.62 | 3.08 | -10.34 | 81.9 | 0.00 |
| 4 | 111 | 904 | -95 | -141 | 325 | -120 | 956 | 3.08 | 4.62 | 4.62 | 3.08 | -9.23 | 73.0 | 0.00 |
| 5 | 111 | 889 | -88 | -139 | 306 | -119 | 916 | 3.08 | 4.62 | 4.62 | 3.08 | -8.84 | 70.0 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | 954 | -713 | -149 | 379 | -71 | 919 | 3.08 | 4.62 | 4.62 | 3.08 | -8.87 | 70.2 | 0.00 |
| 4 | 148 | 904 | -629 | -141 | 325 | -68 | 822 | 3.08 | 4.62 | 4.62 | 3.08 | -7.93 | 62.8 | 0.00 |
| 5 | 148 | 889 | -601 | -139 | 306 | -67 | 789 | 3.08 | 4.62 | 4.62 | 3.08 | -7.62 | 60.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 185 | 954 | -1309 | -149 | 379 | -16 | 545 | 3.08 | 4.62 | 4.62 | 3.08 | -5.26 | 41.6 | 0.00 |
| 4 | 185 | 904 | -1164 | -141 | 325 | -16 | 491 | 3.08 | 4.62 | 4.62 | 3.08 | -4.74 | 37.5 | 0.00 |
| 5 | 185 | 889 | -1115 | -139 | 306 | -16 | 472 | 3.08 | 4.62 | 4.62 | 3.08 | -4.56 | 36.1 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 222 | 954 | -1906 | -149 | 379 | 39 | -49 | 4.62 | 3.08 | 3.08 | 4.62 | -0.47 | 3.7 | 0.00 |
| 4 | 222 | 904 | -1698 | -141 | 325 | 36 | -38 | 4.62 | 3.08 | 3.08 | 4.62 | -0.36 | 2.9 | 0.00 |
| 5 | 222 | 889 | -1628 | -139 | 306 | 35 | -34 | 4.62 | 3.08 | 3.08 | 4.62 | -0.33 | 2.6 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 259 | 954 | -2503 | -149 | 379 | 94 | -864 | 4.62 | 3.08 | 3.08 | 4.62 | -8.33 | 66.0 | 0.00 |
| 4 | 259 | 904 | -2232 | -141 | 325 | 88 | -764 | 4.62 | 3.08 | 3.08 | 4.62 | -7.37 | 58.3 | 0.00 |
| 5 | 259 | 889 | -2141 | -139 | 306 | 87 | -730 | 4.62 | 3.08 | 3.08 | 4.62 | -7.05 | 55.8 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 296 | 954 | -3100 | -149 | 379 | 149 | -1899 | 4.62 | 3.08 | 3.08 | 4.62 | -18.32 | 145.1 | 0.00 |
| 4 | 296 | 904 | -2766 | -141 | 325 | 140 | -1687 | 4.62 | 3.08 | 3.08 | 4.62 | -16.28 | 128.9 | 0.00 |
| 5 | 296 | 889 | -2654 | -139 | 306 | 138 | -1616 | 4.62 | 3.08 | 3.08 | 4.62 | -15.60 | 123.5 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | 954 | -3696 | -149 | 379 | 204 | -3154 | 4.62 | 3.08 | 3.08 | 4.62 | -50.82 | 2026.9 | 0.12 |
| 4 | 333 | 904 | -3300 | -141 | 325 | 192 | -2807 | 4.62 | 3.08 | 3.08 | 4.62 | -45.24 | 1804.1 | 0.10 |
| 5 | 333 | 889 | -3167 | -139 | 306 | 189 | -2691 | 4.62 | 3.08 | 3.08 | 4.62 | -43.37 | 1729.5 | 0.10 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 369 | 954 | -4293 | -149 | 379 | 259 | -4630 | 4.62 | 3.08 | 3.08 | 6.16 | -67.48 | 2256.9 | 0.13 |
| 4 | 369 | 904 | -3834 | -141 | 325 | 245 | -4125 | 4.62 | 3.08 | 3.08 | 6.16 | -60.12 | 2010.7 | 0.11 |
| 5 | 369 | 889 | -3680 | -139 | 306 | 241 | -3956 | 4.62 | 3.08 | 3.08 | 6.16 | -57.66 | 1928.4 | 0.11 |

apost= 1.54 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 25**  NI 15514  NF 15517  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.2090  5.4468  15.6558  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 1221 | 2594 | -174 | 216 | -306 | -462 | 3.08 | 4.62 | 3.08 | 4.62 | -4.46 | 35.3 | 0.00 |
| 4 | 0 | 1160 | 2305 | -168 | 197 | -295 | -405 | 3.08 | 4.62 | 3.08 | 4.62 | -3.91 | 31.0 | 0.00 |
| 5 | 0 | 1141 | 2207 | -166 | 191 | -291 | -386 | 3.08 | 4.62 | 3.08 | 4.62 | -3.72 | 29.5 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 1221 | 2038 | -174 | 216 | -244 | 361 | 3.08 | 4.62 | 4.62 | 3.08 | -3.49 | 27.6 | 0.00 |
| 4 | 36 | 1160 | 1807 | -168 | 197 | -235 | 325 | 3.08 | 4.62 | 4.62 | 3.08 | -3.14 | 24.8 | 0.00 |
| 5 | 36 | 1141 | 1728 | -166 | 191 | -232 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | -3.02 | 23.9 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 1221 | 1481 | -174 | 216 | -183 | 986 | 3.08 | 4.62 | 4.62 | 3.08 | -9.52 | 75.3 | 0.00 |
| 4 | 71 | 1160 | 1309 | -168 | 197 | -175 | 878 | 3.08 | 4.62 | 4.62 | 3.08 | -8.48 | 67.1 | 0.00 |
| 5 | 71 | 1141 | 1249 | -166 | 191 | -173 | 842 | 3.08 | 4.62 | 4.62 | 3.08 | -8.13 | 64.4 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 1221 | 925 | -174 | 216 | -121 | 1414 | 3.08 | 4.62 | 4.62 | 3.08 | -13.64 | 108.0 | 0.00 |
| 4 | 107 | 1160 | 810 | -168 | 197 | -116 | 1254 | 3.08 | 4.62 | 4.62 | 3.08 | -12.11 | 95.8 | 0.00 |
| 5 | 107 | 1141 | 771 | -166 | 191 | -115 | 1201 | 3.08 | 4.62 | 4.62 | 3.08 | -11.59 | 91.8 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 1221 | 369 | -174 | 216 | -59 | 1643 | 3.08 | 4.62 | 4.62 | 3.08 | -15.86 | 125.6 | 0.00 |
| 4 | 142 | 1160 | 312 | -168 | 197 | -56 | 1454 | 3.08 | 4.62 | 4.62 | 3.08 | -14.03 | 111.1 | 0.00 |
| 5 | 142 | 1141 | 292 | -166 | 191 | -56 | 1390 | 3.08 | 4.62 | 4.62 | 3.08 | -13.42 | 106.2 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 1221 | -188 | -174 | 216 | 3 | 1676 | 3.08 | 3.08 | 4.62 | 3.08 | -16.17 | 128.0 | 0.00 |
| 4 | 178 | 1160 | -186 | -168 | 197 | 3 | 1476 | 3.08 | 3.08 | 4.62 | 3.08 | -14.25 | 112.8 | 0.00 |
| 5 | 178 | 1141 | -187 | -166 | 191 | 3 | 1409 | 3.08 | 3.08 | 4.62 | 3.08 | -13.60 | 107.6 | 0.00 |

apost= --  aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 1221 | -744 | -174 | 216 | 64 | 1510 | 4.62 | 3.08 | 4.62 | 3.08 | -14.58 | 115.4 | 0.00 |
| 4 | 213 | 1160 | -684 | -168 | 197 | 63 | 1321 | 4.62 | 3.08 | 4.62 | 3.08 | -12.75 | 100.9 | 0.00 |
| 5 | 213 | 1141 | -666 | -166 | 191 | 62 | 1257 | 4.62 | 3.08 | 4.62 | 3.08 | -12.13 | 96.1 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 1221 | -1300 | -174 | 216 | 126 | 1147 | 4.62 | 3.08 | 4.62 | 3.08 | -11.07 | 87.6 | 0.00 |
| 4 | 249 | 1160 | -1182 | -168 | 197 | 122 | 989 | 4.62 | 3.08 | 4.62 | 3.08 | -9.55 | 75.6 | 0.00 |
| 5 | 249 | 1141 | -1145 | -166 | 191 | 121 | 936 | 4.62 | 3.08 | 4.62 | 3.08 | -9.03 | 71.5 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 1221 | -1856 | -174 | 216 | 188 | 586 | 4.62 | 3.08 | 4.62 | 3.08 | -5.66 | 44.8 | 0.00 |
| 4 | 284 | 1160 | -1681 | -168 | 197 | 182 | 481 | 4.62 | 3.08 | 4.62 | 3.08 | -4.64 | 36.7 | 0.00 |
| 5 | 284 | 1141 | -1623 | -166 | 191 | 180 | 444 | 4.62 | 3.08 | 4.62 | 3.08 | -4.28 | 33.9 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 1221 | -2413 | -174 | 216 | 249 | -172 | 4.62 | 3.08 | 3.08 | 4.62 | -1.66 | 13.1 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 320 | 1160 | -2179 | -168 | 197 | 241 | -205 | 4.62 | 3.08 | 3.08 | 4.62 | -1.98 | 15.7 | 0.00 |
| 5 | 320 | 1141 | -2102 | -166 | 191 | 239 | -218 | 4.62 | 3.08 | 3.08 | 4.62 | -2.10 | 16.7 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 1221 | -2969 | -174 | 216 | 311 | -1128 | 4.62 | 3.08 | 3.08 | 4.62 | -10.89 | 86.2 | 0.00 |
| 4 | 355 | 1160 | -2677 | -168 | 197 | 301 | -1068 | 4.62 | 3.08 | 3.08 | 4.62 | -10.31 | 81.6 | 0.00 |
| 5 | 355 | 1141 | -2581 | -166 | 191 | 297 | -1050 | 4.62 | 3.08 | 3.08 | 4.62 | -10.13 | 80.2 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 26** NI 15511 NF 15514 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 1112 | 4996 | 233 | 177 | 444 | -3382 | 4.62 | 3.08 | 3.08 | 4.62 | -54.50 | 2173.4 | 0.14 |
| 4 | 0 | 1054 | 4597 | 211 | 161 | 404 | -3096 | 4.62 | 3.08 | 3.08 | 4.62 | -49.89 | 1989.6 | 0.12 |
| 5 | 0 | 1037 | 4464 | 204 | 156 | 390 | -3000 | 4.62 | 3.08 | 3.08 | 4.62 | -48.34 | 1927.9 | 0.11 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | 1112 | 4135 | 233 | 177 | 356 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | -15.86 | 125.5 | 0.00 |
| 4 | 38 | 1054 | 3804 | 211 | 161 | 323 | -1496 | 4.62 | 3.08 | 3.08 | 4.62 | -14.44 | 114.3 | 0.00 |
| 5 | 38 | 1037 | 3693 | 204 | 156 | 313 | -1446 | 4.62 | 3.08 | 3.08 | 4.62 | -13.96 | 110.5 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 76 | 1112 | 3273 | 233 | 177 | 267 | -232 | 4.62 | 3.08 | 3.08 | 4.62 | -2.24 | 17.7 | 0.00 |
| 4 | 76 | 1054 | 3010 | 211 | 161 | 243 | -198 | 4.62 | 3.08 | 3.08 | 4.62 | -1.91 | 15.1 | 0.00 |
| 5 | 76 | 1037 | 2922 | 204 | 156 | 235 | -186 | 4.62 | 3.08 | 3.08 | 4.62 | -1.80 | 14.2 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 114 | 1112 | 2412 | 233 | 177 | 178 | 851 | 4.62 | 3.08 | 4.62 | 3.08 | -8.21 | 65.0 | 0.00 |
| 4 | 114 | 1054 | 2217 | 211 | 161 | 162 | 797 | 4.62 | 3.08 | 4.62 | 3.08 | -7.70 | 60.9 | 0.00 |
| 5 | 114 | 1037 | 2151 | 204 | 156 | 157 | 780 | 4.62 | 3.08 | 4.62 | 3.08 | -7.53 | 59.6 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 152 | 1112 | 1550 | 232 | 177 | 90 | 1606 | 4.62 | 3.08 | 4.62 | 3.08 | -15.50 | 122.7 | 0.00 |
| 4 | 152 | 1054 | 1423 | 211 | 161 | 82 | 1491 | 4.62 | 3.08 | 4.62 | 3.08 | -14.39 | 113.9 | 0.00 |
| 5 | 152 | 1037 | 1380 | 204 | 156 | 79 | 1453 | 4.62 | 3.08 | 4.62 | 3.08 | -14.02 | 111.0 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 190 | 1112 | 689 | 233 | 177 | 1 | 2032 | 3.08 | 3.08 | 4.62 | 3.08 | -19.61 | 155.3 | 0.00 |
| 4 | 190 | 1054 | 629 | 211 | 161 | 1 | 1881 | 3.08 | 3.08 | 4.62 | 3.08 | -18.16 | 143.7 | 0.00 |
| 5 | 190 | 1037 | 609 | 204 | 156 | 1 | 1832 | 3.08 | 3.08 | 4.62 | 3.08 | -17.68 | 140.0 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 1112 | -172 | 233 | 177 | -87 | 2131 | 3.08 | 4.62 | 4.62 | 3.08 | -34.33 | 1369.2 | 0.06 |
| 4 | 229 | 1054 | -164 | 211 | 161 | -79 | 1970 | 3.08 | 4.62 | 4.62 | 3.08 | -19.01 | 150.5 | 0.00 |
| 5 | 229 | 1037 | -161 | 204 | 156 | -77 | 1917 | 3.08 | 4.62 | 4.62 | 3.08 | -18.51 | 146.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 267 | 1112 | -1034 | 232 | 177 | -176 | 1901 | 3.08 | 4.62 | 4.62 | 3.08 | -18.35 | 145.2 | 0.00 |
| 4 | 267 | 1054 | -957 | 211 | 161 | -160 | 1756 | 3.08 | 4.62 | 4.62 | 3.08 | -16.95 | 134.2 | 0.00 |
| 5 | 267 | 1037 | -932 | 204 | 156 | -154 | 1709 | 3.08 | 4.62 | 4.62 | 3.08 | -16.49 | 130.6 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | 1112 | -1895 | 233 | 177 | -264 | 1343 | 3.08 | 4.62 | 4.62 | 3.08 | -12.96 | 102.6 | 0.00 |
| 4 | 305 | 1054 | -1751 | 211 | 161 | -240 | 1240 | 3.08 | 4.62 | 4.62 | 3.08 | -11.97 | 94.8 | 0.00 |
| 5 | 305 | 1037 | -1703 | 204 | 156 | -232 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | -11.65 | 92.2 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 343 | 1112 | -2757 | 232 | 177 | -353 | 457 | 3.08 | 4.62 | 4.62 | 3.08 | -4.41 | 34.9 | 0.00 |
| 4 | 343 | 1054 | -2545 | 211 | 161 | -321 | 422 | 3.08 | 4.62 | 4.62 | 3.08 | -4.07 | 32.2 | 0.00 |
| 5 | 343 | 1037 | -2474 | 204 | 156 | -310 | 411 | 3.08 | 4.62 | 4.62 | 3.08 | -3.97 | 31.4 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 381 | 1112 | -3618 | 233 | 177 | -441 | -757 | 3.08 | 4.62 | 3.08 | 4.62 | -7.31 | 57.9 | 0.00 |
| 4 | 381 | 1054 | -3338 | 211 | 161 | -401 | -698 | 3.08 | 4.62 | 3.08 | 4.62 | -6.74 | 53.4 | 0.00 |
| 5 | 381 | 1037 | -3245 | 204 | 156 | -388 | -678 | 3.08 | 4.62 | 3.08 | 4.62 | -6.54 | 51.8 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 27** NI 15508 NF 15511 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 12.6100 5.9364 21.5464 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 937 | 3859 | -7 | -114 | -9 | -1771 | 4.62 | 3.08 | 3.08 | 4.62 | -17.09 | 135.3 | 0.00 |
| 4 | 0 | 889 | 3548 | -12 | -104 | -18 | -1643 | 4.62 | 3.08 | 3.08 | 4.62 | -15.86 | 125.5 | 0.00 |
| 5 | 0 | 875 | 3444 | -14 | -101 | -21 | -1600 | 4.62 | 3.08 | 3.08 | 4.62 | -15.44 | 122.2 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 39 | 937 | 3012 | -7 | -114 | -6 | -421 | 4.62 | 3.08 | 3.08 | 4.62 | -4.06 | 32.1 | 0.00 |
| 4 | 39 | 889 | 2771 | -12 | -104 | -13 | -401 | 4.62 | 3.08 | 3.08 | 4.62 | -3.87 | 30.7 | 0.00 |
| 5 | 39 | 875 | 2691 | -14 | -101 | -16 | -395 | 4.62 | 3.08 | 3.08 | 4.62 | -3.81 | 30.1 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 79 | 937 | 2166 | -7 | -114 | -3 | 597 | 4.62 | 3.08 | 4.62 | 3.08 | -5.76 | 45.6 | 0.00 |
| 4 | 79 | 889 | 1994 | -12 | -104 | -8 | 535 | 4.62 | 3.08 | 4.62 | 3.08 | -5.16 | 40.9 | 0.00 |
| 5 | 79 | 875 | 1937 | -14 | -101 | -10 | 515 | 4.62 | 3.08 | 4.62 | 3.08 | -4.97 | 39.3 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 118 | 937 | 1319 | -7 | -114 | 0 | 1281 | 4.62 | 3.08 | 4.62 | 3.08 | -12.37 | 97.9 | 0.00 |
| 4 | 118 | 889 | 1218 | -12 | -104 | -4 | 1166 | 4.62 | 3.08 | 4.62 | 3.08 | -11.26 | 89.1 | 0.00 |
| 5 | 118 | 875 | 1184 | -14 | -101 | -5 | 1128 | 4.62 | 3.08 | 4.62 | 3.08 | -10.89 | 86.2 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 157 | 937 | 472 | -7 | -114 | 3 | 1633 | 4.62 | 3.08 | 4.62 | 3.08 | -15.76 | 124.8 | 0.00 |
| 4 | 157 | 889 | 441 | -12 | -104 | 1 | 1492 | 4.62 | 3.08 | 4.62 | 3.08 | -14.40 | 114.0 | 0.00 |
| 5 | 157 | 875 | 430 | -14 | -101 | 0 | 1445 | 4.62 | 3.08 | 4.62 | 3.08 | -13.95 | 110.4 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 196 | 937 | -375 | -7 | -114 | 6 | 1653 | 3.08 | 3.08 | 4.62 | 3.08 | -15.95 | 126.3 | 0.00 |
| 4 | 196 | 889 | -336 | -12 | -104 | 6 | 1513 | 3.08 | 3.08 | 4.62 | 3.08 | -14.60 | 115.6 | 0.00 |
| 5 | 196 | 875 | -323 | -14 | -101 | 6 | 1466 | 3.08 | 3.08 | 4.62 | 3.08 | -14.15 | 112.0 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 236 | 937 | -1221 | -7 | -114 | 9 | 1339 | 3.08 | 3.08 | 4.62 | 3.08 | -12.92 | 102.3 | 0.00 |
| 4 | 236 | 889 | -1113 | -12 | -104 | 11 | 1228 | 3.08 | 3.08 | 4.62 | 3.08 | -11.85 | 93.8 | 0.00 |
| 5 | 236 | 875 | -1076 | -14 | -101 | 11 | 1191 | 3.08 | 3.08 | 4.62 | 3.08 | -11.50 | 91.0 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 275 | 937 | -2068 | -7 | -114 | 12 | 693 | 3.08 | 3.08 | 4.62 | 3.08 | -6.68 | 52.9 | 0.00 |
| 4 | 275 | 889 | -1890 | -12 | -104 | 15 | 638 | 3.08 | 3.08 | 4.62 | 3.08 | -6.16 | 48.8 | 0.00 |
| 5 | 275 | 875 | -1830 | -14 | -101 | 17 | 620 | 3.08 | 3.08 | 4.62 | 3.08 | -5.98 | 47.4 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 314 | 937 | -2915 | -7 | -114 | 15 | -286 | 3.08 | 4.62 | 3.08 | 4.62 | -2.76 | 21.9 | 0.00 |
| 4 | 314 | 889 | -2666 | -12 | -104 | 20 | -257 | 3.08 | 4.62 | 3.08 | 4.62 | -2.48 | 19.6 | 0.00 |
| 5 | 314 | 875 | -2583 | -14 | -101 | 22 | -247 | 3.08 | 4.62 | 3.08 | 4.62 | -2.39 | 18.9 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 354 | 937 | -3761 | -7 | -114 | 18 | -1598 | 3.08 | 4.62 | 3.08 | 4.62 | -15.43 | 122.1 | 0.00 |
| 4 | 354 | 889 | -3443 | -12 | -104 | 25 | -1457 | 3.08 | 4.62 | 3.08 | 4.62 | -14.07 | 111.3 | 0.00 |
| 5 | 354 | 875 | -3337 | -14 | -101 | 27 | -1411 | 3.08 | 4.62 | 3.08 | 4.62 | -13.61 | 107.8 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 393 | 937 | -4608 | -7 | -114 | 21 | -3243 | 3.08 | 4.62 | 3.08 | 4.62 | -52.26 | 2084.1 | 0.13 |
| 4 | 393 | 889 | -4220 | -12 | -104 | 30 | -2963 | 3.08 | 4.62 | 3.08 | 4.62 | -47.75 | 1904.2 | 0.11 |
| 5 | 393 | 875 | -4090 | -14 | -101 | 33 | -2870 | 3.08 | 4.62 | 3.08 | 4.62 | -46.25 | 1844.4 | 0.11 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 28** NI 15528 NF 15508 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 846 | 3992 | 108 | -69 | 207 | -2263 | 4.62 | 3.08 | 3.08 | 4.62 | -36.47 | 1454.3 | 0.07 |
| 4 | 0 | 801 | 3651 | 91 | -70 | 175 | -2039 | 4.62 | 3.08 | 3.08 | 4.62 | -19.68 | 155.8 | 0.00 |
| 5 | 0 | 787 | 3538 | 85 | -70 | 164 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | -18.97 | 150.1 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | 846 | 3237 | 108 | -69 | 167 | -932 | 4.62 | 3.08 | 3.08 | 4.62 | -9.00 | 71.2 | 0.00 |
| 4 | 37 | 801 | 2958 | 91 | -70 | 142 | -822 | 4.62 | 3.08 | 3.08 | 4.62 | -7.94 | 62.8 | 0.00 |
| 5 | 37 | 787 | 2866 | 85 | -70 | 133 | -786 | 4.62 | 3.08 | 3.08 | 4.62 | -7.59 | 60.1 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | 846 | 2483 | 108 | -69 | 127 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | -1.17 | 9.2 | 0.00 |
| 4 | 74 | 801 | 2266 | 91 | -70 | 108 | 139 | 4.62 | 3.08 | 4.62 | 3.08 | -1.35 | 10.7 | 0.00 |
| 5 | 74 | 787 | 2194 | 85 | -70 | 102 | 145 | 4.62 | 3.08 | 4.62 | 3.08 | -1.40 | 11.1 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | 846 | 1728 | 108 | -69 | 88 | 896 | 4.62 | 3.08 | 4.62 | 3.08 | -8.65 | 68.5 | 0.00 |
| 4 | 110 | 801 | 1573 | 91 | -70 | 75 | 846 | 4.62 | 3.08 | 4.62 | 3.08 | -8.17 | 64.6 | 0.00 |
| 5 | 110 | 787 | 1522 | 85 | -70 | 70 | 829 | 4.62 | 3.08 | 4.62 | 3.08 | -8.00 | 63.4 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | 846 | 974 | 108 | -69 | 48 | 1393 | 4.62 | 3.08 | 4.62 | 3.08 | -13.45 | 106.5 | 0.00 |
| 4 | 147 | 801 | 880 | 91 | -70 | 41 | 1298 | 4.62 | 3.08 | 4.62 | 3.08 | -12.53 | 99.2 | 0.00 |
| 5 | 147 | 787 | 850 | 85 | -70 | 39 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | -12.22 | 96.7 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 184 | 846 | 219 | 108 | -69 | 9 | 1613 | 4.62 | 3.08 | 4.62 | 3.08 | -15.57 | 123.2 | 0.00 |
| 4 | 184 | 801 | 187 | 91 | -70 | 8 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | -14.42 | 114.2 | 0.00 |
| 5 | 184 | 787 | 177 | 85 | -70 | 8 | 1455 | 4.62 | 3.08 | 4.62 | 3.08 | -14.04 | 111.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 221 | 846 | -536 | 108 | -69 | -31 | 1555 | 3.08 | 4.62 | 4.62 | 3.08 | -15.01 | 118.8 | 0.00 |
| 4 | 221 | 801 | -505 | 91 | -70 | -25 | 1436 | 3.08 | 4.62 | 4.62 | 3.08 | -13.86 | 109.7 | 0.00 |
| 5 | 221 | 787 | -495 | 85 | -70 | -24 | 1397 | 3.08 | 4.62 | 4.62 | 3.08 | -13.48 | 106.7 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 258 | 846 | -1290 | 108 | -69 | -71 | 1219 | 3.08 | 4.62 | 4.62 | 3.08 | -11.76 | 93.1 | 0.00 |
| 4 | 258 | 801 | -1198 | 91 | -70 | -59 | 1123 | 3.08 | 4.62 | 4.62 | 3.08 | -10.83 | 85.8 | 0.00 |
| 5 | 258 | 787 | -1167 | 85 | -70 | -55 | 1091 | 3.08 | 4.62 | 4.62 | 3.08 | -10.53 | 83.4 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 846 | -2045 | 108 | -69 | -110 | 605 | 3.08 | 4.62 | 4.62 | 3.08 | -5.84 | 46.2 | 0.00 |
| 4 | 295 | 801 | -1891 | 91 | -70 | -92 | 554 | 3.08 | 4.62 | 4.62 | 3.08 | -5.35 | 42.3 | 0.00 |
| 5 | 295 | 787 | -1839 | 85 | -70 | -86 | 538 | 3.08 | 4.62 | 4.62 | 3.08 | -5.19 | 41.1 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 331 | 846 | -2799 | 108 | -69 | -150 | -287 | 3.08 | 4.62 | 3.08 | 4.62 | -2.77 | 21.9 | 0.00 |
| 4 | 331 | 801 | -2583 | 91 | -70 | -126 | -269 | 3.08 | 4.62 | 3.08 | 4.62 | -2.60 | 20.6 | 0.00 |
| 5 | 331 | 787 | -2511 | 85 | -70 | -117 | -263 | 3.08 | 4.62 | 3.08 | 4.62 | -2.54 | 20.1 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 368 | 846 | -3554 | 108 | -69 | -190 | -1456 | 3.08 | 4.62 | 3.08 | 4.62 | -14.05 | 111.2 | 0.00 |
| 4 | 368 | 801 | -3276 | 91 | -70 | -159 | -1348 | 3.08 | 4.62 | 3.08 | 4.62 | -13.01 | 103.0 | 0.00 |
| 5 | 368 | 787 | -3183 | 85 | -70 | -149 | -1311 | 3.08 | 4.62 | 3.08 | 4.62 | -12.65 | 100.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 29** NI 15507 NF 15528 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | ---------- | | | ---------- | | | ---------- | | | | ---------- | | -- |
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 569 | 2517 | 71 | -353 | 149 | -928 | 4.62 | 3.08 | 3.08 | 4.62 | -8.95 | 70.9 | 0.00 |
| 4 | 0 | 534 | 2246 | 65 | -327 | 137 | -858 | 4.62 | 3.08 | 3.08 | 4.62 | -8.28 | 65.5 | 0.00 |
| 5 | 0 | 524 | 2156 | 63 | -319 | 133 | -834 | 4.62 | 3.08 | 3.08 | 4.62 | -8.05 | 63.7 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 569 | 1974 | 71 | -353 | 123 | -116 | 4.62 | 3.08 | 3.08 | 4.62 | -1.12 | 8.8 | 0.00 |
| 4 | 36 | 534 | 1764 | 65 | -327 | 113 | -132 | 4.62 | 3.08 | 3.08 | 4.62 | -1.28 | 10.1 | 0.00 |
| 5 | 36 | 524 | 1695 | 63 | -319 | 110 | -138 | 4.62 | 3.08 | 3.08 | 4.62 | -1.33 | 10.5 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 72 | 569 | 1432 | 71 | -353 | 98 | 500 | 4.62 | 3.08 | 4.62 | 3.08 | -4.83 | 38.2 | 0.00 |
| 4 | 72 | 534 | 1282 | 65 | -327 | 90 | 418 | 4.62 | 3.08 | 4.62 | 3.08 | -4.04 | 32.0 | 0.00 |
| 5 | 72 | 524 | 1233 | 63 | -319 | 87 | 391 | 4.62 | 3.08 | 4.62 | 3.08 | -3.78 | 29.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 108 | 569 | 889 | 71 | -353 | 72 | 920 | 4.62 | 3.08 | 4.62 | 3.08 | -8.88 | 70.3 | 0.00 |
| 4 | 108 | 534 | 801 | 65 | -327 | 66 | 795 | 4.62 | 3.08 | 4.62 | 3.08 | -7.67 | 60.8 | 0.00 |
| 5 | 108 | 524 | 772 | 63 | -319 | 64 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | -7.28 | 57.6 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 145 | 569 | 347 | 71 | -353 | 47 | 1143 | 4.62 | 3.08 | 4.62 | 3.08 | -11.03 | 87.3 | 0.00 |
| 4 | 145 | 534 | 319 | 65 | -327 | 43 | 998 | 4.62 | 3.08 | 4.62 | 3.08 | -9.63 | 76.2 | 0.00 |
| 5 | 145 | 524 | 310 | 63 | -319 | 42 | 949 | 4.62 | 3.08 | 4.62 | 3.08 | -9.16 | 72.5 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 181 | 569 | -196 | 71 | -353 | 21 | 1170 | 4.62 | 3.08 | 4.62 | 3.08 | -11.29 | 89.4 | 0.00 |
| 4 | 181 | 534 | -163 | 65 | -327 | 19 | 1026 | 4.62 | 3.08 | 4.62 | 3.08 | -9.90 | 78.4 | 0.00 |
| 5 | 181 | 524 | -152 | 63 | -319 | 19 | 978 | 4.62 | 3.08 | 4.62 | 3.08 | -9.44 | 74.7 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 217 | 569 | -739 | 71 | -353 | -4 | 1001 | 3.08 | 4.62 | 4.62 | 3.08 | -9.66 | 76.5 | 0.00 |
| 4 | 217 | 534 | -645 | 65 | -327 | -4 | 880 | 3.08 | 4.62 | 4.62 | 3.08 | -8.49 | 67.2 | 0.00 |
| 5 | 217 | 524 | -613 | 63 | -319 | -4 | 840 | 3.08 | 4.62 | 4.62 | 3.08 | -8.11 | 64.2 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 253 | 569 | -1281 | 71 | -353 | -30 | 636 | 3.08 | 4.62 | 4.62 | 3.08 | -6.14 | 48.6 | 0.00 |
| 4 | 253 | 534 | -1127 | 65 | -327 | -28 | 560 | 3.08 | 4.62 | 4.62 | 3.08 | -5.40 | 42.8 | 0.00 |
| 5 | 253 | 524 | -1075 | 63 | -319 | -27 | 535 | 3.08 | 4.62 | 4.62 | 3.08 | -5.16 | 40.9 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 289 | 569 | -1824 | 71 | -353 | -55 | 74 | 3.08 | 4.62 | 4.62 | 3.08 | -0.72 | 5.7 | 0.00 |
| 4 | 289 | 534 | -1608 | 65 | -327 | -51 | 65 | 3.08 | 4.62 | 4.62 | 3.08 | -0.63 | 5.0 | 0.00 |
| 5 | 289 | 524 | -1536 | 63 | -319 | -49 | 63 | 3.08 | 4.62 | 4.62 | 3.08 | -0.61 | 4.8 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 325 | 569 | -2366 | 71 | -353 | -81 | -683 | 3.08 | 4.62 | 3.08 | 4.62 | -6.59 | 52.2 | 0.00 |
| 4 | 325 | 534 | -2090 | 65 | -327 | -75 | -603 | 3.08 | 4.62 | 3.08 | 4.62 | -5.82 | 46.1 | 0.00 |
| 5 | 325 | 524 | -1997 | 63 | -319 | -72 | -576 | 3.08 | 4.62 | 3.08 | 4.62 | -5.56 | 44.0 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 362 | 569 | -2909 | 71 | -353 | -107 | -1637 | 3.08 | 4.62 | 3.08 | 4.62 | -15.80 | 125.1 | 0.00 |
| 4 | 362 | 534 | -2572 | 65 | -327 | -98 | -1446 | 3.08 | 4.62 | 3.08 | 4.62 | -13.96 | 110.5 | 0.00 |
| 5 | 362 | 524 | -2459 | 63 | -319 | -95 | -1382 | 3.08 | 4.62 | 3.08 | 4.62 | -13.34 | 105.6 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 30**  NI 15518  NF 14445  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.4925  5.6610  16.1535  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 466 | 1591 | -96 | -444 | -197 | 549 | 4.62 | 4.62 | 4.62 | 3.08 | -5.30 | 41.9 | 0.00 |
| 4 | 0 | 442 | 1488 | -92 | -422 | -189 | 371 | 4.62 | 4.62 | 4.62 | 3.08 | -3.58 | 28.4 | 0.00 |
| 5 | 0 | 434 | 1455 | -91 | -415 | -187 | 307 | 4.62 | 4.62 | 4.62 | 3.08 | -2.97 | 23.5 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | 466 | 994 | -96 | -444 | -162 | 1026 | 4.62 | 4.62 | 4.62 | 3.08 | -9.90 | 78.4 | 0.00 |
| 4 | 37 | 442 | 954 | -92 | -422 | -155 | 822 | 4.62 | 4.62 | 4.62 | 3.08 | -7.94 | 62.8 | 0.00 |
| 5 | 37 | 434 | 942 | -91 | -415 | -153 | 750 | 4.62 | 4.62 | 4.62 | 3.08 | -7.24 | 57.3 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | 466 | 397 | -96 | -444 | -126 | 1283 | 4.62 | 4.62 | 4.62 | 3.08 | -12.39 | 98.0 | 0.00 |
| 4 | 74 | 442 | 420 | -92 | -422 | -121 | 1076 | 4.62 | 4.62 | 4.62 | 3.08 | -10.38 | 82.2 | 0.00 |
| 5 | 74 | 434 | 429 | -91 | -415 | -119 | 1004 | 4.62 | 4.62 | 4.62 | 3.08 | -9.69 | 76.7 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 111 | 466 | -199 | -96 | -444 | -91 | 1320 | 4.62 | 4.62 | 4.62 | 3.08 | -12.74 | 100.8 | 0.00 |
| 4 | 111 | 442 | -114 | -92 | -422 | -87 | 1132 | 4.62 | 4.62 | 4.62 | 3.08 | -10.93 | 86.5 | 0.00 |
| 5 | 111 | 434 | -84 | -91 | -415 | -86 | 1067 | 4.62 | 4.62 | 4.62 | 3.08 | -10.30 | 81.5 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | 466 | -796 | -96 | -444 | -55 | 1136 | 4.62 | 4.62 | 4.62 | 3.08 | -10.96 | 86.8 | 0.00 |
| 4 | 148 | 442 | -648 | -92 | -422 | -53 | 992 | 4.62 | 4.62 | 4.62 | 3.08 | -9.57 | 75.8 | 0.00 |
| 5 | 148 | 434 | -597 | -91 | -415 | -52 | 941 | 4.62 | 4.62 | 4.62 | 3.08 | -9.09 | 71.9 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 185 | 466 | -1393 | -96 | -444 | -20 | 731 | 4.62 | 4.62 | 4.62 | 3.08 | -7.06 | 55.9 | 0.00 |
| 4 | 185 | 442 | -1183 | -92 | -422 | -19 | 653 | 4.62 | 4.62 | 4.62 | 3.08 | -6.31 | 49.9 | 0.00 |
| 5 | 185 | 434 | -1111 | -91 | -415 | -18 | 626 | 4.62 | 4.62 | 4.62 | 3.08 | -6.04 | 47.8 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 222 | 466 | -1990 | -96 | -444 | 16 | 106 | 4.62 | 4.62 | 4.62 | 3.08 | -1.03 | 8.1 | 0.00 |
| 4 | 222 | 442 | -1717 | -92 | -422 | 15 | 118 | 4.62 | 4.62 | 4.62 | 3.08 | -1.14 | 9.0 | 0.00 |
| 5 | 222 | 434 | -1624 | -91 | -415 | 15 | 121 | 4.62 | 4.62 | 4.62 | 3.08 | -1.17 | 9.2 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 259 | 466 | -2587 | -96 | -444 | 51 | -739 | 4.62 | 4.62 | 3.08 | 4.62 | -7.13 | 56.5 | 0.00 |
| 4 | 259 | 442 | -2251 | -92 | -422 | 49 | -615 | 4.62 | 4.62 | 3.08 | 4.62 | -5.93 | 47.0 | 0.00 |
| 5 | 259 | 434 | -2137 | -91 | -415 | 49 | -574 | 4.62 | 4.62 | 3.08 | 4.62 | -5.54 | 43.8 | 0.00 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 296 | 466 | -3183 | -96 | -444 | 86 | -1805 | 4.62 | 4.62 | 3.08 | 4.62 | -17.42 | 137.9 | 0.00 |
| 4 | 296 | 442 | -2785 | -92 | -422 | 84 | -1545 | 4.62 | 4.62 | 3.08 | 4.62 | -14.91 | 118.0 | 0.00 |
| 5 | 296 | 434 | -2650 | -91 | -415 | 83 | -1458 | 4.62 | 4.62 | 3.08 | 4.62 | -14.07 | 111.4 | 0.00 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | 466 | -3780 | -96 | -444 | 122 | -3091 | 4.62 | 4.62 | 3.08 | 4.62 | -49.81 | 1986.5 | 0.12 |
| 4 | 333 | 442 | -3319 | -92 | -422 | 118 | -2672 | 4.62 | 4.62 | 3.08 | 4.62 | -43.06 | 1717.4 | 0.10 |
| 5 | 333 | 434 | -3163 | -91 | -415 | 116 | -2532 | 4.62 | 4.62 | 3.08 | 4.62 | -40.80 | 1627.0 | 0.09 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 369 | 466 | -4377 | -96 | -444 | 157 | -4598 | 4.62 | 4.62 | 3.08 | 6.16 | -67.02 | 2241.3 | 0.13 |
| 4 | 369 | 442 | -3853 | -92 | -422 | 152 | -3997 | 4.62 | 4.62 | 3.08 | 6.16 | -58.26 | 1948.3 | 0.11 |
| 5 | 369 | 434 | -3676 | -91 | -415 | 150 | -3795 | 4.62 | 4.62 | 3.08 | 6.16 | -55.31 | 1849.9 | 0.10 |

apost= 1.54 aant= 1.54 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 31** NI 15515 NF 15518 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 308 | 2524 | -189 | -274 | -347 | -556 | 3.08 | 4.62 | 3.08 | 4.62 | -5.36 | 42.4 | 0.00 |
| 4 | 0 | 291 | 2250 | -182 | -265 | -333 | -513 | 3.08 | 4.62 | 3.08 | 4.62 | -4.95 | 39.2 | 0.00 |
| 5 | 0 | 285 | 2156 | -179 | -261 | -329 | -496 | 3.08 | 4.62 | 3.08 | 4.62 | -4.78 | 37.9 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 308 | 1968 | -189 | -274 | -280 | 243 | 3.08 | 4.62 | 4.62 | 3.08 | -2.34 | 18.5 | 0.00 |
| 4 | 36 | 291 | 1752 | -182 | -265 | -268 | 198 | 3.08 | 4.62 | 4.62 | 3.08 | -1.91 | 15.1 | 0.00 |
| 5 | 36 | 285 | 1677 | -179 | -261 | -265 | 185 | 3.08 | 4.62 | 4.62 | 3.08 | -1.79 | 14.2 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 308 | 1412 | -189 | -274 | -213 | 843 | 3.08 | 4.62 | 4.62 | 3.08 | -8.14 | 64.4 | 0.00 |
| 4 | 71 | 291 | 1254 | -182 | -265 | -204 | 732 | 3.08 | 4.62 | 4.62 | 3.08 | -7.06 | 55.9 | 0.00 |
| 5 | 71 | 285 | 1198 | -179 | -261 | -201 | 696 | 3.08 | 4.62 | 4.62 | 3.08 | -6.72 | 53.2 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 308 | 855 | -189 | -274 | -146 | 1246 | 3.08 | 4.62 | 4.62 | 3.08 | -12.02 | 95.2 | 0.00 |
| 4 | 107 | 291 | 755 | -182 | -265 | -139 | 1089 | 3.08 | 4.62 | 4.62 | 3.08 | -10.51 | 83.2 | 0.00 |
| 5 | 107 | 285 | 719 | -179 | -261 | -138 | 1037 | 3.08 | 4.62 | 4.62 | 3.08 | -10.01 | 79.2 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 308 | 299 | -189 | -274 | -78 | 1451 | 3.08 | 4.62 | 4.62 | 3.08 | -14.00 | 110.8 | 0.00 |
| 4 | 142 | 291 | 257 | -182 | -265 | -75 | 1269 | 3.08 | 4.62 | 4.62 | 3.08 | -12.24 | 96.9 | 0.00 |
| 5 | 142 | 285 | 240 | -179 | -261 | -74 | 1207 | 3.08 | 4.62 | 4.62 | 3.08 | -11.65 | 92.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 308 | -257 | -189 | -274 | -11 | 1458 | 3.08 | 4.62 | 4.62 | 3.08 | -14.07 | 111.4 | 0.00 |
| 4 | 178 | 291 | -241 | -182 | -265 | -10 | 1271 | 3.08 | 4.62 | 4.62 | 3.08 | -12.27 | 97.1 | 0.00 |
| 5 | 178 | 285 | -238 | -179 | -261 | -10 | 1208 | 3.08 | 4.62 | 4.62 | 3.08 | -11.66 | 92.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 308 | -813 | -189 | -274 | 56 | 1268 | 4.62 | 3.08 | 4.62 | 3.08 | -12.24 | 96.9 | 0.00 |
| 4 | 213 | 291 | -739 | -182 | -265 | 54 | 1097 | 4.62 | 3.08 | 4.62 | 3.08 | -10.59 | 83.8 | 0.00 |
| 5 | 213 | 285 | -717 | -179 | -261 | 54 | 1038 | 4.62 | 3.08 | 4.62 | 3.08 | -10.02 | 79.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 308 | -1369 | -189 | -274 | 123 | 880 | 4.62 | 3.08 | 4.62 | 3.08 | -8.50 | 67.3 | 0.00 |
| 4 | 249 | 291 | -1237 | -182 | -265 | 119 | 746 | 4.62 | 3.08 | 4.62 | 3.08 | -7.20 | 57.0 | 0.00 |
| 5 | 249 | 285 | -1196 | -179 | -261 | 117 | 698 | 4.62 | 3.08 | 4.62 | 3.08 | -6.74 | 53.4 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 308 | -1926 | -189 | -274 | 190 | 295 | 4.62 | 3.08 | 4.62 | 3.08 | -2.85 | 22.5 | 0.00 |
| 4 | 284 | 291 | -1736 | -182 | -265 | 183 | 218 | 4.62 | 3.08 | 4.62 | 3.08 | -2.11 | 16.7 | 0.00 |
| 5 | 284 | 285 | -1675 | -179 | -261 | 181 | 188 | 4.62 | 3.08 | 4.62 | 3.08 | -1.82 | 14.4 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 308 | -2482 | -189 | -274 | 257 | -488 | 4.62 | 3.08 | 3.08 | 4.62 | -4.71 | 37.3 | 0.00 |
| 4 | 320 | 291 | -2234 | -182 | -265 | 248 | -487 | 4.62 | 3.08 | 3.08 | 4.62 | -4.70 | 37.2 | 0.00 |
| 5 | 320 | 285 | -2154 | -179 | -261 | 245 | -492 | 4.62 | 3.08 | 3.08 | 4.62 | -4.75 | 37.6 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 308 | -3038 | -189 | -274 | 324 | -1469 | 4.62 | 3.08 | 3.08 | 4.62 | -14.18 | 112.2 | 0.00 |
| 4 | 355 | 291 | -2732 | -182 | -265 | 312 | -1369 | 4.62 | 3.08 | 3.08 | 4.62 | -13.21 | 104.6 | 0.00 |
| 5 | 355 | 285 | -2633 | -179 | -261 | 308 | -1342 | 4.62 | 3.08 | 3.08 | 4.62 | -12.95 | 102.5 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 32**  NI 15512  NF 15515  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  13.6770  5.9364  22.6134  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 237 | 4581 | 187 | -13 | 352 | -2588 | 4.62 | 3.08 | 3.08 | 4.62 | -41.70 | 1663.2 | 0.09 |
| 4 | 0 | 227 | 4226 | 169 | -20 | 317 | -2395 | 4.62 | 3.08 | 3.08 | 4.62 | -38.59 | 1539.1 | 0.08 |
| 5 | 0 | 223 | 4108 | 163 | -22 | 306 | -2329 | 4.62 | 3.08 | 3.08 | 4.62 | -37.53 | 1496.7 | 0.08 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | 237 | 3720 | 187 | -13 | 280 | -1007 | 4.62 | 3.08 | 3.08 | 4.62 | -9.72 | 77.0 | 0.00 |
| 4 | 38 | 227 | 3433 | 169 | -20 | 253 | -936 | 4.62 | 3.08 | 3.08 | 4.62 | -9.04 | 71.5 | 0.00 |
| 5 | 38 | 223 | 3337 | 163 | -22 | 244 | -911 | 4.62 | 3.08 | 3.08 | 4.62 | -8.79 | 69.6 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 76 | 237 | 2858 | 187 | -13 | 209 | 246 | 4.62 | 3.08 | 4.62 | 3.08 | -2.37 | 18.8 | 0.00 |
| 4 | 76 | 227 | 2639 | 169 | -20 | 189 | 220 | 4.62 | 3.08 | 4.62 | 3.08 | -2.13 | 16.8 | 0.00 |
| 5 | 76 | 223 | 2566 | 163 | -22 | 182 | 213 | 4.62 | 3.08 | 4.62 | 3.08 | -2.06 | 16.3 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 114 | 237 | 1997 | 187 | -13 | 138 | 1170 | 4.62 | 3.08 | 4.62 | 3.08 | -11.29 | 89.4 | 0.00 |
| 4 | 114 | 227 | 1845 | 169 | -20 | 125 | 1075 | 4.62 | 3.08 | 4.62 | 3.08 | -10.37 | 82.1 | 0.00 |
| 5 | 114 | 223 | 1795 | 163 | -22 | 120 | 1044 | 4.62 | 3.08 | 4.62 | 3.08 | -10.08 | 79.8 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 152 | 237 | 1135 | 187 | -13 | 67 | 1766 | 4.62 | 3.08 | 4.62 | 3.08 | -17.05 | 135.0 | 0.00 |
| 4 | 152 | 227 | 1052 | 169 | -20 | 60 | 1627 | 4.62 | 3.08 | 4.62 | 3.08 | -15.70 | 124.3 | 0.00 |
| 5 | 152 | 223 | 1024 | 163 | -22 | 58 | 1581 | 4.62 | 3.08 | 4.62 | 3.08 | -15.26 | 120.8 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 190 | 237 | 274 | 187 | -13 | -4 | 2035 | 3.08 | 3.08 | 4.62 | 3.08 | -19.64 | 155.5 | 0.00 |
| 4 | 190 | 227 | 258 | 169 | -20 | -4 | 1876 | 3.08 | 3.08 | 4.62 | 3.08 | -18.11 | 143.3 | 0.00 |
| 5 | 190 | 223 | 253 | 163 | -22 | -4 | 1825 | 3.08 | 3.08 | 4.62 | 3.08 | -17.61 | 139.4 | 0.00 |

apost= --  aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 237 | -587 | 187 | -13 | -75 | 1975 | 3.08 | 4.62 | 4.62 | 3.08 | -19.06 | 150.9 | 0.00 |
| 4 | 229 | 227 | -535 | 169 | -20 | -68 | 1824 | 3.08 | 4.62 | 4.62 | 3.08 | -17.60 | 139.3 | 0.00 |
| 5 | 229 | 223 | -518 | 163 | -22 | -65 | 1774 | 3.08 | 4.62 | 4.62 | 3.08 | -17.12 | 135.6 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 267 | 237 | -1449 | 187 | -13 | -146 | 1587 | 3.08 | 4.62 | 4.62 | 3.08 | -15.32 | 121.2 | 0.00 |
| 4 | 267 | 227 | -1329 | 169 | -20 | -132 | 1469 | 3.08 | 4.62 | 4.62 | 3.08 | -14.17 | 112.2 | 0.00 |
| 5 | 267 | 223 | -1289 | 163 | -22 | -127 | 1430 | 3.08 | 4.62 | 4.62 | 3.08 | -13.80 | 109.3 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | 237 | -2310 | 187 | -13 | -217 | 871 | 3.08 | 4.62 | 4.62 | 3.08 | -8.40 | 66.5 | 0.00 |
| 4 | 305 | 227 | -2122 | 169 | -20 | -196 | 811 | 3.08 | 4.62 | 4.62 | 3.08 | -7.83 | 62.0 | 0.00 |
| 5 | 305 | 223 | -2060 | 163 | -22 | -189 | 792 | 3.08 | 4.62 | 4.62 | 3.08 | -7.65 | 60.5 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 343 | 237 | -3172 | 187 | -13 | -288 | -174 | 3.08 | 4.62 | 3.08 | 4.62 | -1.68 | 13.3 | 0.00 |
| 4 | 343 | 227 | -2916 | 169 | -20 | -260 | -148 | 3.08 | 4.62 | 3.08 | 4.62 | -1.43 | 11.3 | 0.00 |
| 5 | 343 | 223 | -2831 | 163 | -22 | -251 | -139 | 3.08 | 4.62 | 3.08 | 4.62 | -1.34 | 10.6 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 381 | 237 | -4033 | 187 | -13 | -360 | -1546 | 3.08 | 4.62 | 3.08 | 4.62 | -14.92 | 118.1 | 0.00 |
| 4 | 381 | 227 | -3709 | 169 | -20 | -325 | -1410 | 3.08 | 4.62 | 3.08 | 4.62 | -13.61 | 107.7 | 0.00 |
| 5 | 381 | 223 | -3602 | 163 | -22 | -313 | -1364 | 3.08 | 4.62 | 3.08 | 4.62 | -13.16 | 104.2 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 33** NI 15509 NF 15512 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 12.6100 5.9364 21.5464 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 161 | 4267 | -58 | -38 | -109 | -2576 | 3.08 | 4.62 | 3.08 | 4.62 | -41.51 | 1655.5 | 0.09 |
| 4 | 0 | 155 | 3914 | -60 | -32 | -114 | -2368 | 3.08 | 4.62 | 3.08 | 4.62 | -38.16 | 1521.8 | 0.08 |
| 5 | 0 | 153 | 3796 | -61 | -30 | -115 | -2299 | 3.08 | 4.62 | 3.08 | 4.62 | -37.05 | 1477.5 | 0.07 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 39 | 161 | 3420 | -58 | -38 | -86 | -1066 | 3.08 | 4.62 | 3.08 | 4.62 | -10.29 | 81.4 | 0.00 |
| 4 | 39 | 155 | 3137 | -60 | -32 | -90 | -983 | 3.08 | 4.62 | 3.08 | 4.62 | -9.48 | 75.1 | 0.00 |
| 5 | 39 | 153 | 3043 | -61 | -30 | -91 | -955 | 3.08 | 4.62 | 3.08 | 4.62 | -9.22 | 73.0 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 79 | 161 | 2573 | -58 | -38 | -63 | 112 | 3.08 | 4.62 | 4.62 | 3.08 | -1.08 | 8.6 | 0.00 |
| 4 | 79 | 155 | 2360 | -60 | -32 | -66 | 98 | 3.08 | 4.62 | 4.62 | 3.08 | -0.94 | 7.5 | 0.00 |
| 5 | 79 | 153 | 2289 | -61 | -30 | -67 | 93 | 3.08 | 4.62 | 4.62 | 3.08 | -0.90 | 7.1 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 118 | 161 | 1727 | -58 | -38 | -41 | 957 | 3.08 | 4.62 | 4.62 | 3.08 | -9.23 | 73.1 | 0.00 |
| 4 | 118 | 155 | 1584 | -60 | -32 | -42 | 873 | 3.08 | 4.62 | 4.62 | 3.08 | -8.42 | 66.7 | 0.00 |
| 5 | 118 | 153 | 1536 | -61 | -30 | -43 | 844 | 3.08 | 4.62 | 4.62 | 3.08 | -8.15 | 64.5 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 157 | 161 | 880 | -58 | -38 | -18 | 1469 | 3.08 | 4.62 | 4.62 | 3.08 | -14.18 | 112.2 | 0.00 |
| 4 | 157 | 155 | 807 | -60 | -32 | -19 | 1342 | 3.08 | 4.62 | 4.62 | 3.08 | -12.96 | 102.6 | 0.00 |
| 5 | 157 | 153 | 782 | -61 | -30 | -19 | 1300 | 3.08 | 4.62 | 4.62 | 3.08 | -12.55 | 99.3 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 196 | 161 | 33 | -58 | -38 | 5 | 1648 | 3.08 | 3.08 | 4.62 | 3.08 | -15.91 | 125.9 | 0.00 |
| 4 | 196 | 155 | 30 | -60 | -32 | 5 | 1507 | 3.08 | 3.08 | 4.62 | 3.08 | -14.54 | 115.1 | 0.00 |
| 5 | 196 | 153 | 29 | -61 | -30 | 5 | 1460 | 3.08 | 3.08 | 4.62 | 3.08 | -14.09 | 111.5 | 0.00 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 236 | 161 | -814 | -58 | -38 | 28 | 1495 | 4.62 | 3.08 | 4.62 | 3.08 | -14.43 | 114.2 | 0.00 |
| 4 | 236 | 155 | -747 | -60 | -32 | 29 | 1366 | 4.62 | 3.08 | 4.62 | 3.08 | -13.18 | 104.4 | 0.00 |
| 5 | 236 | 153 | -724 | -61 | -30 | 29 | 1323 | 4.62 | 3.08 | 4.62 | 3.08 | -12.77 | 101.1 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 275 | 161 | -1661 | -58 | -38 | 51 | 1008 | 4.62 | 3.08 | 4.62 | 3.08 | -9.73 | 77.0 | 0.00 |
| 4 | 275 | 155 | -1524 | -60 | -32 | 53 | 920 | 4.62 | 3.08 | 4.62 | 3.08 | -8.88 | 70.3 | 0.00 |
| 5 | 275 | 153 | -1478 | -61 | -30 | 53 | 890 | 4.62 | 3.08 | 4.62 | 3.08 | -8.59 | 68.0 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 314 | 161 | -2507 | -58 | -38 | 74 | 189 | 4.62 | 3.08 | 4.62 | 3.08 | -1.83 | 14.5 | 0.00 |
| 4 | 314 | 155 | -2300 | -60 | -32 | 76 | 168 | 4.62 | 3.08 | 4.62 | 3.08 | -1.63 | 12.9 | 0.00 |
| 5 | 314 | 153 | -2231 | -61 | -30 | 77 | 162 | 4.62 | 3.08 | 4.62 | 3.08 | -1.56 | 12.4 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 354 | 161 | -3354 | -58 | -38 | 97 | -962 | 4.62 | 3.08 | 3.08 | 4.62 | -9.29 | 73.5 | 0.00 |
| 4 | 354 | 155 | -3077 | -60 | -32 | 100 | -888 | 4.62 | 3.08 | 3.08 | 4.62 | -8.57 | 67.9 | 0.00 |
| 5 | 354 | 153 | -2985 | -61 | -30 | 101 | -863 | 4.62 | 3.08 | 3.08 | 4.62 | -8.33 | 65.9 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 393 | 161 | -4201 | -58 | -38 | 120 | -2447 | 4.62 | 3.08 | 3.08 | 4.62 | -39.43 | 1572.6 | 0.08 |
| 4 | 393 | 155 | -3854 | -60 | -32 | 124 | -2250 | 4.62 | 3.08 | 3.08 | 4.62 | -36.26 | 1446.0 | 0.07 |
| 5 | 393 | 153 | -3738 | -61 | -30 | 125 | -2184 | 4.62 | 3.08 | 3.08 | 4.62 | -35.19 | 1403.5 | 0.07 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 34** NI 15527 NF 15509 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 34 | 3778 | 31 | 172 | 55 | -1901 | 4.62 | 3.08 | 3.08 | 4.62 | -18.35 | 145.2 | 0.00 |
| 4 | 0 | 37 | 3467 | 18 | 161 | 31 | -1731 | 4.62 | 3.08 | 3.08 | 4.62 | -16.71 | 132.3 | 0.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 0 | 37 | 3363 | 13 | 158 | 23 | -1674 | 4.62 | 3.08 | 3.08 | 4.62 | -16.16 | 127.9 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | 34 | 3024 | 31 | 172 | 44 | -649 | 4.62 | 3.08 | 3.08 | 4.62 | -6.26 | 49.6 | 0.00 |
| 4 | 37 | 37 | 2774 | 18 | 161 | 25 | -582 | 4.62 | 3.08 | 3.08 | 4.62 | -5.62 | 44.5 | 0.00 |
| 5 | 37 | 37 | 2691 | 13 | 158 | 18 | -560 | 4.62 | 3.08 | 3.08 | 4.62 | -5.40 | 42.8 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | 34 | 2269 | 31 | 172 | 33 | 326 | 4.62 | 3.08 | 4.62 | 3.08 | -3.14 | 24.9 | 0.00 |
| 4 | 74 | 37 | 2082 | 18 | 161 | 18 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | -3.01 | 23.8 | 0.00 |
| 5 | 74 | 37 | 2019 | 13 | 158 | 13 | 307 | 4.62 | 3.08 | 4.62 | 3.08 | -2.97 | 23.5 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | 34 | 1514 | 31 | 172 | 21 | 1022 | 4.62 | 3.08 | 4.62 | 3.08 | -9.87 | 78.1 | 0.00 |
| 4 | 110 | 37 | 1389 | 18 | 161 | 12 | 950 | 4.62 | 3.08 | 4.62 | 3.08 | -9.17 | 72.6 | 0.00 |
| 5 | 110 | 37 | 1347 | 13 | 158 | 8 | 927 | 4.62 | 3.08 | 4.62 | 3.08 | -8.95 | 70.8 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | 34 | 760 | 31 | 172 | 10 | 1441 | 4.62 | 3.08 | 4.62 | 3.08 | -13.91 | 110.1 | 0.00 |
| 4 | 147 | 37 | 696 | 18 | 161 | 5 | 1334 | 4.62 | 3.08 | 4.62 | 3.08 | -12.88 | 101.9 | 0.00 |
| 5 | 147 | 37 | 675 | 13 | 158 | 4 | 1299 | 4.62 | 3.08 | 4.62 | 3.08 | -12.54 | 99.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 184 | 34 | 6 | 31 | 172 | -1 | 1582 | 3.08 | 3.08 | 4.62 | 3.08 | -15.27 | 120.9 | 0.00 |
| 4 | 184 | 37 | 3 | 18 | 161 | -1 | 1463 | 3.08 | 3.08 | 4.62 | 3.08 | -14.12 | 111.8 | 0.00 |
| 5 | 184 | 37 | 2 | 13 | 158 | -1 | 1424 | 3.08 | 3.08 | 4.62 | 3.08 | -13.74 | 108.8 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 221 | 34 | -749 | 31 | 172 | -12 | 1445 | 3.08 | 4.62 | 4.62 | 3.08 | -13.95 | 110.4 | 0.00 |
| 4 | 221 | 37 | -689 | 18 | 161 | -8 | 1337 | 3.08 | 4.62 | 4.62 | 3.08 | -12.90 | 102.1 | 0.00 |
| 5 | 221 | 37 | -670 | 13 | 158 | -6 | 1301 | 3.08 | 4.62 | 4.62 | 3.08 | -12.55 | 99.4 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 258 | 34 | -1503 | 31 | 172 | -24 | 1031 | 3.08 | 4.62 | 4.62 | 3.08 | -9.95 | 78.7 | 0.00 |
| 4 | 258 | 37 | -1382 | 18 | 161 | -14 | 955 | 3.08 | 4.62 | 4.62 | 3.08 | -9.22 | 73.0 | 0.00 |
| 5 | 258 | 37 | -1342 | 13 | 158 | -11 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | -8.98 | 71.1 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 34 | -2258 | 31 | 172 | -35 | 338 | 3.08 | 4.62 | 4.62 | 3.08 | -3.26 | 25.8 | 0.00 |
| 4 | 295 | 37 | -2075 | 18 | 161 | -21 | 319 | 3.08 | 4.62 | 4.62 | 3.08 | -3.08 | 24.4 | 0.00 |
| 5 | 295 | 37 | -2014 | 13 | 158 | -16 | 313 | 3.08 | 4.62 | 4.62 | 3.08 | -3.02 | 23.9 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 331 | 34 | -3013 | 31 | 172 | -46 | -632 | 3.08 | 4.62 | 3.08 | 4.62 | -6.10 | 48.3 | 0.00 |
| 4 | 331 | 37 | -2767 | 18 | 161 | -27 | -573 | 3.08 | 4.62 | 3.08 | 4.62 | -5.53 | 43.7 | 0.00 |
| 5 | 331 | 37 | -2686 | 13 | 158 | -20 | -552 | 3.08 | 4.62 | 3.08 | 4.62 | -5.33 | 42.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 368 | 34 | -3767 | 31 | 172 | -57 | -1880 | 3.08 | 4.62 | 3.08 | 4.62 | -18.14 | 143.6 | 0.00 |
| 4 | 368 | 37 | -3460 | 18 | 161 | -34 | -1719 | 3.08 | 4.62 | 3.08 | 4.62 | -16.59 | 131.3 | 0.00 |
| 5 | 368 | 37 | -3358 | 13 | 158 | -25 | -1665 | 3.08 | 4.62 | 3.08 | 4.62 | -16.07 | 127.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 35** NI 15506 NF 15527 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -64 | 3139 | -58 | 170 | -107 | -2048 | 3.08 | 4.62 | 3.08 | 4.62 | -33.00 | 1316.1 | 0.06 |
| 4 | 0 | -55 | 2809 | -58 | 166 | -107 | -1870 | 3.08 | 4.62 | 3.08 | 4.62 | -18.05 | 142.9 | 0.00 |
| 5 | 0 | -52 | 2698 | -58 | 164 | -107 | -1810 | 3.08 | 4.62 | 3.08 | 4.62 | -17.47 | 138.3 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -64 | 2596 | -58 | 170 | -86 | -1011 | 3.08 | 4.62 | 3.08 | 4.62 | -9.76 | 77.2 | 0.00 |
| 4 | 36 | -55 | 2327 | -58 | 166 | -86 | -942 | 3.08 | 4.62 | 3.08 | 4.62 | -9.09 | 71.9 | 0.00 |
| 5 | 36 | -52 | 2236 | -58 | 164 | -86 | -918 | 3.08 | 4.62 | 3.08 | 4.62 | -8.86 | 70.1 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 72 | -64 | 2054 | -58 | 170 | -65 | -170 | 3.08 | 4.62 | 3.08 | 4.62 | -1.64 | 13.0 | 0.00 |
| 4 | 72 | -55 | 1845 | -58 | 166 | -65 | -187 | 3.08 | 4.62 | 3.08 | 4.62 | -1.81 | 14.3 | 0.00 |
| 5 | 72 | -52 | 1775 | -58 | 164 | -65 | -192 | 3.08 | 4.62 | 3.08 | 4.62 | -1.86 | 14.7 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

```
 3   108     -64    1512     -58      170     -44     474     3.08   4.62   4.62   3.08     -4.58      36.2    0.00
 4   108     -55    1364     -58      166     -44     393     3.08   4.62   4.62   3.08     -3.79      30.0    0.00
 5   108     -52    1314     -58      164     -44     366     3.08   4.62   4.62   3.08     -3.53      28.0    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   145     -64     969     -58      170     -23     923     3.08   4.62   4.62   3.08     -8.91      70.5    0.00
 4   145     -55     882     -58      166     -23     799     3.08   4.62   4.62   3.08     -7.71      61.0    0.00
 5   145     -52     852     -58      164     -23     758     3.08   4.62   4.62   3.08     -7.31      57.9    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   181     -64     426     -58      170      -2    1175     3.08   3.08   4.62   3.08    -11.34      89.8    0.00
 4   181     -55     400     -58      166      -2    1030     3.08   3.08   4.62   3.08     -9.94      78.7    0.00
 5   181     -52     390     -58      164      -3     982     3.08   3.08   4.62   3.08     -9.48      75.0    0.00

apost= --      aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   217     -64    -116     -58      170      19    1231     4.62   3.08   4.62   3.08    -11.88      94.1    0.00
 4   217     -55     -82     -58      166      18    1088     4.62   3.08   4.62   3.08    -10.50      83.1    0.00
 5   217     -52     -71     -58      164      18    1040     4.62   3.08   4.62   3.08    -10.04      79.5    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   253     -64    -658     -58      170      40    1091     4.62   3.08   4.62   3.08    -10.53      83.4    0.00
 4   253     -55    -564     -58      166      39     971     4.62   3.08   4.62   3.08     -9.37      74.2    0.00
 5   253     -52    -533     -58      164      39     931     4.62   3.08   4.62   3.08     -8.98      71.1    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   289     -64   -1201     -58      170      61     755     4.62   3.08   4.62   3.08     -7.28      57.7    0.00
 4   289     -55   -1045     -58      166      60     680     4.62   3.08   4.62   3.08     -6.56      51.9    0.00
 5   289     -52    -994     -58      164      60     655     4.62   3.08   4.62   3.08     -6.32      50.0    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   325     -64   -1743     -58      170      82     222     4.62   3.08   4.62   3.08     -2.15      17.0    0.00
 4   325     -55   -1527     -58      166      81     215     4.62   3.08   4.62   3.08     -2.07      16.4    0.00
 5   325     -52   -1455     -58      164      81     212     4.62   3.08   4.62   3.08     -2.05      16.2    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   362     -64   -2286     -58      170     103    -506     4.62   3.08   3.08   4.62     -4.89      38.7    0.00
 4   362     -55   -2009     -58      166     102    -425     4.62   3.08   3.08   4.62     -4.10      32.5    0.00
 5   362     -52   -1917     -58      164     102    -398     4.62   3.08   3.08   4.62     -3.84      30.4    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

ASTA NUM. 36     NI 15505    NF 15502    SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000   6.7900     5.9364  15.7264  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
       --    -------------------     ------------------   ---------------------------      --------------      --
      cm             kg                      kg*m                      cm²                      kg/cm²        mm
-------------------------------------------------------------------------------------------------------------

 3     0   -5254    3380     -16      208     -19   -2743     3.08   4.62   3.08   4.62    -44.20    1762.8    0.10
 4     0   -5002    2986     -20      186     -28   -2483     3.08   4.62   3.08   4.62    -40.01    1595.7    0.09
 5     0   -4919    2855     -22      178     -33   -2396     3.08   4.62   3.08   4.62    -38.61    1539.8    0.08

apost= --      aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3    40   -5254    2758     -16      208     -12   -1529     3.08   3.08   3.08   4.62    -14.75     116.8    0.00
 4    40   -5002    2434     -20      186     -20   -1411     3.08   3.08   3.08   4.62    -13.61     107.8    0.00
 5    40   -4919    2327     -22      178     -24   -1371     3.08   3.08   3.08   4.62    -13.23     104.7    0.00

apost= --      aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3    79   -5254    2136     -16      208      -6    -560     3.08   3.08   3.08   4.62     -5.41      42.8    0.00
 4    79   -5002    1883     -20      186     -12    -557     3.08   3.08   3.08   4.62     -5.37      42.5    0.00
 5    79   -4919    1799     -22      178     -15    -555     3.08   3.08   3.08   4.62     -5.35      42.4    0.00

apost= --      aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   119   -5254    1514     -16      208       0     162     4.62   3.08   4.62   3.08     -1.56      12.4    0.00
 4   119   -5002    1331     -20      186      -4      79     4.62   3.08   4.62   3.08     -0.76       6.1    0.00
 5   119   -4919    1270     -22      178      -6      52     4.62   3.08   4.62   3.08     -0.51       4.0    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   158   -5254     892     -16      208       7     638     4.62   3.08   4.62   3.08     -6.15      48.7    0.00
 4   158   -5002     779     -20      186       4     497     4.62   3.08   4.62   3.08     -4.79      38.0    0.00
 5   158   -4919     742     -22      178       3     451     4.62   3.08   4.62   3.08     -4.35      34.4    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   198   -5254     270     -16      208      13     867     4.62   3.08   4.62   3.08     -8.37      66.3    0.00
 4   198   -5002     228     -20      186      12     696     4.62   3.08   4.62   3.08     -6.72      53.2    0.00
```

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 198 | -4919 | 214 | -22 | 178 | 11 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | -6.18 | 48.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 237 | -5254 | -353 | -16 | 208 | 19 | 851 | 4.62 | 3.08 | 4.62 | 3.08 | -8.21 | 65.0 | 0.00 |
| 4 | 237 | -5002 | -324 | -20 | 186 | 20 | 677 | 4.62 | 3.08 | 4.62 | 3.08 | -6.53 | 51.7 | 0.00 |
| 5 | 237 | -4919 | -314 | -22 | 178 | 20 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | -5.98 | 47.4 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 277 | -5254 | -975 | -16 | 208 | 26 | 589 | 4.62 | 3.08 | 4.62 | 3.08 | -5.68 | 45.0 | 0.00 |
| 4 | 277 | -5002 | -876 | -20 | 186 | 28 | 440 | 4.62 | 3.08 | 4.62 | 3.08 | -4.24 | 33.6 | 0.00 |
| 5 | 277 | -4919 | -842 | -22 | 178 | 29 | 391 | 4.62 | 3.08 | 4.62 | 3.08 | -3.78 | 29.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 317 | -5254 | -1597 | -16 | 208 | 32 | 80 | 4.62 | 3.08 | 4.62 | 4.62 | -0.75 | 6.0 | 0.00 |
| 4 | 317 | -5002 | -1428 | -20 | 186 | 36 | -16 | 4.62 | 3.08 | 4.62 | 4.62 | -0.15 | 1.2 | 0.00 |
| 5 | 317 | -4919 | -1371 | -22 | 178 | 38 | -47 | 4.62 | 3.08 | 4.62 | 4.62 | -0.44 | 3.5 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 356 | -5254 | -2219 | -16 | 208 | 38 | -675 | 4.62 | 3.08 | 3.08 | 4.62 | -6.51 | 51.6 | 0.00 |
| 4 | 356 | -5002 | -1979 | -20 | 186 | 44 | -690 | 4.62 | 3.08 | 3.08 | 4.62 | -6.66 | 52.7 | 0.00 |
| 5 | 356 | -4919 | -1899 | -22 | 178 | 47 | -693 | 4.62 | 3.08 | 3.08 | 4.62 | -6.69 | 53.0 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 396 | -5254 | -2841 | -16 | 208 | 45 | -1676 | 4.62 | 3.08 | 3.08 | 4.62 | -16.18 | 128.1 | 0.00 |
| 4 | 396 | -5002 | -2531 | -20 | 186 | 52 | -1582 | 4.62 | 3.08 | 3.08 | 4.62 | -15.27 | 120.9 | 0.00 |
| 5 | 396 | -4919 | -2427 | -22 | 178 | 56 | -1549 | 4.62 | 3.08 | 3.08 | 4.62 | -14.95 | 118.3 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 37** NI 15526 NF 15505 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -4254 | 2305 | -220 | 134 | -395 | -1074 | 3.08 | 4.62 | 3.08 | 4.62 | -10.37 | 82.1 | 0.00 |
| 4 | 0 | -4048 | 2038 | -206 | 118 | -370 | -963 | 3.08 | 4.62 | 3.08 | 4.62 | -9.29 | 73.6 | 0.00 |
| 5 | 0 | -3980 | 1949 | -202 | 113 | -363 | -926 | 3.08 | 4.62 | 3.08 | 4.62 | -8.93 | 70.7 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -4254 | 1762 | -220 | 134 | -315 | -338 | 3.08 | 4.62 | 3.08 | 4.62 | -3.27 | 25.9 | 0.00 |
| 4 | 36 | -4048 | 1556 | -206 | 118 | -296 | -313 | 3.08 | 4.62 | 3.08 | 4.62 | -3.02 | 23.9 | 0.00 |
| 5 | 36 | -3980 | 1488 | -202 | 113 | -290 | -304 | 3.08 | 4.62 | 3.08 | 4.62 | -2.94 | 23.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 72 | -4254 | 1220 | -220 | 134 | -236 | 201 | 3.08 | 4.62 | 4.62 | 3.08 | -1.94 | 15.3 | 0.00 |
| 4 | 72 | -4048 | 1074 | -206 | 118 | -221 | 163 | 3.08 | 4.62 | 4.62 | 3.08 | -1.57 | 12.4 | 0.00 |
| 5 | 72 | -3980 | 1026 | -202 | 113 | -217 | 150 | 3.08 | 4.62 | 4.62 | 3.08 | -1.45 | 11.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 108 | -4254 | 678 | -220 | 134 | -157 | 544 | 3.08 | 4.62 | 4.62 | 3.08 | -5.25 | 41.6 | 0.00 |
| 4 | 108 | -4048 | 593 | -206 | 118 | -147 | 464 | 3.08 | 4.62 | 4.62 | 3.08 | -4.48 | 35.5 | 0.00 |
| 5 | 108 | -3980 | 565 | -202 | 113 | -144 | 438 | 3.08 | 4.62 | 4.62 | 3.08 | -4.23 | 33.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 145 | -4254 | 135 | -220 | 134 | -77 | 691 | 3.08 | 4.62 | 4.62 | 3.08 | -6.67 | 52.8 | 0.00 |
| 4 | 145 | -4048 | 111 | -206 | 118 | -73 | 592 | 3.08 | 4.62 | 4.62 | 3.08 | -5.71 | 45.2 | 0.00 |
| 5 | 145 | -3980 | 103 | -202 | 113 | -71 | 559 | 3.08 | 4.62 | 4.62 | 3.08 | -5.39 | 42.7 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 181 | -4254 | -408 | -220 | 134 | 2 | 642 | 3.08 | 3.08 | 4.62 | 3.08 | -6.19 | 49.0 | 0.00 |
| 4 | 181 | -4048 | -371 | -206 | 118 | 2 | 545 | 3.08 | 3.08 | 4.62 | 3.08 | -5.26 | 41.6 | 0.00 |
| 5 | 181 | -3980 | -359 | -202 | 113 | 2 | 512 | 3.08 | 3.08 | 4.62 | 3.08 | -4.95 | 39.1 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 217 | -4254 | -950 | -220 | 134 | 81 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | -3.83 | 30.3 | 0.00 |
| 4 | 217 | -4048 | -853 | -206 | 118 | 76 | 324 | 4.62 | 3.08 | 4.62 | 3.08 | -3.12 | 24.7 | 0.00 |
| 5 | 217 | -3980 | -820 | -202 | 113 | 75 | 299 | 4.62 | 3.08 | 4.62 | 3.08 | -2.89 | 22.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 253 | -4254 | -1493 | -220 | 134 | 161 | -45 | 4.62 | 3.08 | 3.08 | 4.62 | -0.44 | 3.5 | 0.00 |
| 4 | 253 | -4048 | -1335 | -206 | 118 | 150 | -72 | 4.62 | 3.08 | 3.08 | 4.62 | -0.69 | 5.5 | 0.00 |
| 5 | 253 | -3980 | -1282 | -202 | 113 | 148 | -81 | 4.62 | 3.08 | 3.08 | 4.62 | -0.78 | 6.2 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 289 | -4254 | -2035 | -220 | 134 | 240 | -683 | 4.62 | 3.08 | 3.08 | 4.62 | -6.59 | 52.2 | 0.00 |
| 4 | 289 | -4048 | -1816 | -206 | 118 | 225 | -641 | 4.62 | 3.08 | 3.08 | 4.62 | -6.19 | 49.0 | 0.00 |
| 5 | 289 | -3980 | -1743 | -202 | 113 | 220 | -628 | 4.62 | 3.08 | 3.08 | 4.62 | -6.06 | 47.9 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 325 | -4254 | -2577 | -220 | 134 | 319 | -1517 | 4.62 | 3.08 | 3.08 | 4.62 | -14.64 | 115.9 | 0.00 |
| 4 | 325 | -4048 | -2298 | -206 | 118 | 299 | -1385 | 4.62 | 3.08 | 3.08 | 4.62 | -13.37 | 105.8 | 0.00 |
| 5 | 325 | -3980 | -2204 | -202 | 113 | 293 | -1341 | 4.62 | 3.08 | 3.08 | 4.62 | -12.95 | 102.5 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 362 | -4254 | -3120 | -220 | 134 | 399 | -2547 | 4.62 | 3.08 | 3.08 | 4.62 | -41.04 | 1636.8 | 0.09 |
| 4 | 362 | -4048 | -2780 | -206 | 118 | 374 | -2303 | 4.62 | 3.08 | 3.08 | 4.62 | -37.11 | 1480.0 | 0.07 |
| 5 | 362 | -3980 | -2666 | -202 | 113 | 366 | -2222 | 4.62 | 3.08 | 3.08 | 4.62 | -35.81 | 1428.0 | 0.07 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 38** NI 15510 NF 15526 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.8950 5.5998 20.4948 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -3340 | 4080 | -141 | 90 | -265 | -2614 | 3.08 | 4.62 | 3.08 | 4.62 | -42.12 | 1679.9 | 0.09 |
| 4 | 0 | -3172 | 3745 | -141 | 78 | -265 | -2390 | 3.08 | 4.62 | 3.08 | 4.62 | -38.51 | 1535.9 | 0.08 |
| 5 | 0 | -3117 | 3633 | -141 | 75 | -265 | -2316 | 3.08 | 4.62 | 3.08 | 4.62 | -37.32 | 1488.4 | 0.07 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -3340 | 3325 | -141 | 90 | -213 | -1251 | 3.08 | 4.62 | 3.08 | 4.62 | -12.07 | 95.6 | 0.00 |
| 4 | 37 | -3172 | 3052 | -141 | 78 | -213 | -1139 | 3.08 | 4.62 | 3.08 | 4.62 | -10.99 | 87.0 | 0.00 |
| 5 | 37 | -3117 | 2961 | -141 | 75 | -213 | -1102 | 3.08 | 4.62 | 3.08 | 4.62 | -10.64 | 84.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -3340 | 2571 | -141 | 90 | -162 | -165 | 3.08 | 4.62 | 3.08 | 4.62 | -1.60 | 12.6 | 0.00 |
| 4 | 74 | -3172 | 2360 | -141 | 78 | -161 | -143 | 3.08 | 4.62 | 3.08 | 4.62 | -1.38 | 10.9 | 0.00 |
| 5 | 74 | -3117 | 2289 | -141 | 75 | -161 | -136 | 3.08 | 4.62 | 3.08 | 4.62 | -1.31 | 10.4 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -3340 | 1816 | -141 | 90 | -110 | 642 | 3.08 | 4.62 | 4.62 | 3.08 | -6.20 | 49.1 | 0.00 |
| 4 | 110 | -3172 | 1667 | -141 | 78 | -109 | 598 | 3.08 | 4.62 | 4.62 | 3.08 | -5.78 | 45.7 | 0.00 |
| 5 | 110 | -3117 | 1617 | -141 | 75 | -110 | 583 | 3.08 | 4.62 | 4.62 | 3.08 | -5.63 | 44.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | -3340 | 1062 | -141 | 90 | -58 | 1172 | 3.08 | 4.62 | 4.62 | 3.08 | -11.31 | 89.5 | 0.00 |
| 4 | 147 | -3172 | 974 | -141 | 78 | -58 | 1084 | 3.08 | 4.62 | 4.62 | 3.08 | -10.47 | 82.9 | 0.00 |
| 5 | 147 | -3117 | 945 | -141 | 75 | -58 | 1055 | 3.08 | 4.62 | 4.62 | 3.08 | -10.18 | 80.6 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 184 | -3340 | 307 | -141 | 90 | -7 | 1424 | 3.08 | 4.62 | 4.62 | 3.08 | -13.74 | 108.8 | 0.00 |
| 4 | 184 | -3172 | 281 | -141 | 78 | -6 | 1315 | 3.08 | 4.62 | 4.62 | 3.08 | -12.70 | 100.5 | 0.00 |
| 5 | 184 | -3117 | 272 | -141 | 75 | -6 | 1279 | 3.08 | 4.62 | 4.62 | 3.08 | -12.34 | 97.7 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 221 | -3340 | -448 | -141 | 90 | 45 | 1398 | 4.62 | 3.08 | 4.62 | 3.08 | -13.50 | 106.8 | 0.00 |
| 4 | 221 | -3172 | -411 | -141 | 78 | 46 | 1291 | 4.62 | 3.08 | 4.62 | 3.08 | -12.46 | 98.7 | 0.00 |
| 5 | 221 | -3117 | -400 | -141 | 75 | 46 | 1255 | 4.62 | 3.08 | 4.62 | 3.08 | -12.11 | 95.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 258 | -3340 | -1202 | -141 | 90 | 97 | 1095 | 4.62 | 3.08 | 4.62 | 3.08 | -10.57 | 83.6 | 0.00 |
| 4 | 258 | -3172 | -1104 | -141 | 78 | 98 | 1012 | 4.62 | 3.08 | 4.62 | 3.08 | -9.77 | 77.3 | 0.00 |
| 5 | 258 | -3117 | -1072 | -141 | 75 | 98 | 984 | 4.62 | 3.08 | 4.62 | 3.08 | -9.50 | 75.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | -3340 | -1957 | -141 | 90 | 149 | 513 | 4.62 | 3.08 | 4.62 | 3.08 | -4.95 | 39.2 | 0.00 |
| 4 | 295 | -3172 | -1797 | -141 | 78 | 149 | 478 | 4.62 | 3.08 | 4.62 | 3.08 | -4.62 | 36.5 | 0.00 |
| 5 | 295 | -3117 | -1744 | -141 | 75 | 150 | 466 | 4.62 | 3.08 | 4.62 | 3.08 | -4.50 | 35.6 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 331 | -3340 | -2711 | -141 | 90 | 200 | -346 | 4.62 | 3.08 | 3.08 | 4.62 | -3.34 | 26.4 | 0.00 |
| 4 | 331 | -3172 | -2489 | -141 | 78 | 201 | -311 | 4.62 | 3.08 | 3.08 | 4.62 | -3.00 | 23.7 | 0.00 |
| 5 | 331 | -3117 | -2416 | -141 | 75 | 202 | -300 | 4.62 | 3.08 | 3.08 | 4.62 | -2.89 | 22.9 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 368 | -3340 | -3466 | -141 | 90 | 252 | -1483 | 4.62 | 3.08 | 3.08 | 4.62 | -14.31 | 113.3 | 0.00 |
| 4 | 368 | -3172 | -3182 | -141 | 78 | 253 | -1355 | 4.62 | 3.08 | 3.08 | 4.62 | -13.08 | 103.5 | 0.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 368 | -3117 | -3088 | -141 | 75 | 254 | -1313 | 4.62 | 3.08 | 3.08 | 4.62 | -12.67 | 100.3 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 39** NI 15513 NF 15510 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 12.6100 5.9364 21.5464 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -2388 | 4225 | -219 | 96 | -435 | -2746 | 3.08 | 4.62 | 3.08 | 4.62 | -44.25 | 1764.7 | 0.10 |
| 4 | 0 | -2266 | 3874 | -210 | 87 | -417 | -2517 | 3.08 | 4.62 | 3.08 | 4.62 | -40.56 | 1617.5 | 0.09 |
| 5 | 0 | -2225 | 3757 | -207 | 85 | -411 | -2440 | 3.08 | 4.62 | 3.08 | 4.62 | -39.32 | 1568.1 | 0.08 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 39 | -2388 | 3378 | -219 | 96 | -349 | -1252 | 3.08 | 4.62 | 3.08 | 4.62 | -12.09 | 95.7 | 0.00 |
| 4 | 39 | -2266 | 3097 | -210 | 87 | -334 | -1147 | 3.08 | 4.62 | 3.08 | 4.62 | -11.07 | 87.7 | 0.00 |
| 5 | 39 | -2225 | 3004 | -207 | 85 | -330 | -1112 | 3.08 | 4.62 | 3.08 | 4.62 | -10.73 | 84.9 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 79 | -2388 | 2531 | -219 | 96 | -263 | -91 | 3.08 | 4.62 | 3.08 | 4.62 | -0.88 | 7.0 | 0.00 |
| 4 | 79 | -2266 | 2320 | -210 | 87 | -252 | -83 | 3.08 | 4.62 | 3.08 | 4.62 | -0.80 | 6.3 | 0.00 |
| 5 | 79 | -2225 | 2250 | -207 | 85 | -249 | -79 | 3.08 | 4.62 | 3.08 | 4.62 | -0.77 | 6.1 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 118 | -2388 | 1685 | -219 | 96 | -177 | 737 | 3.08 | 4.62 | 4.62 | 3.08 | -7.12 | 56.3 | 0.00 |
| 4 | 118 | -2266 | 1544 | -210 | 87 | -170 | 677 | 3.08 | 4.62 | 4.62 | 3.08 | -6.53 | 51.7 | 0.00 |
| 5 | 118 | -2225 | 1497 | -207 | 85 | -167 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | -6.34 | 50.2 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 157 | -2388 | 838 | -219 | 96 | -91 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | -11.90 | 94.2 | 0.00 |
| 4 | 157 | -2266 | 767 | -210 | 87 | -87 | 1131 | 3.08 | 4.62 | 4.62 | 3.08 | -10.91 | 86.4 | 0.00 |
| 5 | 157 | -2225 | 743 | -207 | 85 | -86 | 1097 | 3.08 | 4.62 | 4.62 | 3.08 | -10.58 | 83.8 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -2388 | -9 | -219 | 96 | -5 | 1396 | 3.08 | 3.08 | 4.62 | 3.08 | -13.47 | 106.6 | 0.00 |
| 4 | 196 | -2266 | -10 | -210 | 87 | -5 | 1279 | 3.08 | 3.08 | 4.62 | 3.08 | -12.35 | 97.7 | 0.00 |
| 5 | 196 | -2225 | -10 | -207 | 85 | -5 | 1241 | 3.08 | 3.08 | 4.62 | 3.08 | -11.97 | 94.8 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 236 | -2388 | -856 | -219 | 96 | 81 | 1226 | 4.62 | 3.08 | 4.62 | 3.08 | -11.83 | 93.6 | 0.00 |
| 4 | 236 | -2266 | -787 | -210 | 87 | 77 | 1123 | 4.62 | 3.08 | 4.62 | 3.08 | -10.84 | 85.8 | 0.00 |
| 5 | 236 | -2225 | -763 | -207 | 85 | 76 | 1089 | 4.62 | 3.08 | 4.62 | 3.08 | -10.51 | 83.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 275 | -2388 | -1703 | -219 | 96 | 167 | 723 | 4.62 | 3.08 | 4.62 | 3.08 | -6.98 | 55.2 | 0.00 |
| 4 | 275 | -2266 | -1564 | -210 | 87 | 160 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | -6.38 | 50.5 | 0.00 |
| 5 | 275 | -2225 | -1517 | -207 | 85 | 158 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | -6.18 | 48.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 314 | -2388 | -2549 | -219 | 96 | 253 | -113 | 4.62 | 3.08 | 3.08 | 4.62 | -1.09 | 8.6 | 0.00 |
| 4 | 314 | -2266 | -2340 | -210 | 87 | 242 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | -1.02 | 8.1 | 0.00 |
| 5 | 314 | -2225 | -2270 | -207 | 85 | 239 | -104 | 4.62 | 3.08 | 3.08 | 4.62 | -1.00 | 8.0 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 354 | -2388 | -3396 | -219 | 96 | 339 | -1281 | 4.62 | 3.08 | 3.08 | 4.62 | -12.36 | 97.9 | 0.00 |
| 4 | 354 | -2266 | -3117 | -210 | 87 | 325 | -1178 | 4.62 | 3.08 | 3.08 | 4.62 | -11.37 | 90.0 | 0.00 |
| 5 | 354 | -2225 | -3024 | -207 | 85 | 320 | -1144 | 4.62 | 3.08 | 3.08 | 4.62 | -11.05 | 87.4 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 393 | -2388 | -4243 | -219 | 96 | 425 | -2782 | 4.62 | 3.08 | 3.08 | 4.62 | -44.83 | 1787.9 | 0.10 |
| 4 | 393 | -2266 | -3894 | -210 | 87 | 407 | -2556 | 4.62 | 3.08 | 3.08 | 4.62 | -41.19 | 1642.6 | 0.09 |
| 5 | 393 | -2225 | -3777 | -207 | 85 | 401 | -2481 | 4.62 | 3.08 | 3.08 | 4.62 | -39.98 | 1594.4 | 0.08 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 40** NI 15516 NF 15513 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.6770 5.9364 22.6134 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 0 | -1551 | 3990 | 55 | -56 | 128 | -1730 | 4.62 | 3.08 | 3.08 | 4.62 | -16.70 | 132.2 | 0.00 |
| 4 | 0 | -1463 | 3675 | 47 | -39 | 112 | -1590 | 4.62 | 3.08 | 3.08 | 4.62 | -15.35 | 121.5 | 0.00 |
| 5 | 0 | -1433 | 3569 | 44 | -34 | 107 | -1542 | 4.62 | 3.08 | 3.08 | 4.62 | -14.88 | 117.8 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | -1551 | 3129 | 55 | -56 | 107 | -374 | 4.62 | 3.08 | 3.08 | 4.62 | -3.61 | 28.6 | 0.00 |
| 4 | 38 | -1463 | 2881 | 47 | -39 | 94 | -341 | 4.62 | 3.08 | 3.08 | 4.62 | -3.29 | 26.1 | 0.00 |
| 5 | 38 | -1433 | 2798 | 44 | -34 | 90 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | -3.18 | 25.1 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 76 | -1551 | 2267 | 55 | -56 | 86 | 654 | 4.62 | 3.08 | 4.62 | 3.08 | -6.31 | 49.9 | 0.00 |
| 4 | 76 | -1463 | 2088 | 47 | -39 | 76 | 605 | 4.62 | 3.08 | 4.62 | 3.08 | -5.84 | 46.2 | 0.00 |
| 5 | 76 | -1433 | 2027 | 44 | -34 | 73 | 590 | 4.62 | 3.08 | 4.62 | 3.08 | -5.69 | 45.1 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 114 | -1551 | 1406 | 55 | -56 | 65 | 1353 | 4.62 | 3.08 | 4.62 | 3.08 | -13.06 | 103.4 | 0.00 |
| 4 | 114 | -1463 | 1294 | 47 | -39 | 58 | 1249 | 4.62 | 3.08 | 4.62 | 3.08 | -12.05 | 95.4 | 0.00 |
| 5 | 114 | -1433 | 1256 | 44 | -34 | 56 | 1216 | 4.62 | 3.08 | 4.62 | 3.08 | -11.73 | 92.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 152 | -1551 | 544 | 55 | -56 | 44 | 1724 | 4.62 | 3.08 | 4.62 | 3.08 | -16.64 | 131.8 | 0.00 |
| 4 | 152 | -1463 | 501 | 47 | -39 | 40 | 1591 | 4.62 | 3.08 | 4.62 | 3.08 | -15.35 | 121.5 | 0.00 |
| 5 | 152 | -1433 | 485 | 44 | -34 | 39 | 1547 | 4.62 | 3.08 | 4.62 | 3.08 | -14.93 | 118.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 190 | -1551 | -317 | 55 | -56 | 23 | 1768 | 4.62 | 3.08 | 4.62 | 3.08 | -17.06 | 135.1 | 0.00 |
| 4 | 190 | -1463 | -293 | 47 | -39 | 23 | 1630 | 4.62 | 3.08 | 4.62 | 3.08 | -15.73 | 124.6 | 0.00 |
| 5 | 190 | -1433 | -286 | 44 | -34 | 22 | 1586 | 4.62 | 3.08 | 4.62 | 3.08 | -15.30 | 121.1 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | -1551 | -1178 | 55 | -56 | 3 | 1483 | 3.08 | 3.08 | 4.62 | 3.08 | -14.31 | 113.3 | 0.00 |
| 4 | 229 | -1463 | -1087 | 47 | -39 | 5 | 1367 | 3.08 | 3.08 | 4.62 | 3.08 | -13.20 | 104.5 | 0.00 |
| 5 | 229 | -1433 | -1056 | 44 | -34 | 5 | 1330 | 3.08 | 3.08 | 4.62 | 3.08 | -12.84 | 101.6 | 0.00 |

apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 267 | -1551 | -2040 | 55 | -56 | -18 | 870 | 3.08 | 4.62 | 4.62 | 3.08 | -8.40 | 66.5 | 0.00 |
| 4 | 267 | -1463 | -1880 | 47 | -39 | -13 | 802 | 3.08 | 4.62 | 4.62 | 3.08 | -7.74 | 61.3 | 0.00 |
| 5 | 267 | -1433 | -1827 | 44 | -34 | -12 | 781 | 3.08 | 4.62 | 4.62 | 3.08 | -7.54 | 59.7 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | -1551 | -2901 | 55 | -56 | -39 | -71 | 3.08 | 4.62 | 3.08 | 4.62 | -0.69 | 5.4 | 0.00 |
| 4 | 305 | -1463 | -2674 | 47 | -39 | -31 | -65 | 3.08 | 4.62 | 3.08 | 4.62 | -0.63 | 5.0 | 0.00 |
| 5 | 305 | -1433 | -2598 | 44 | -34 | -29 | -62 | 3.08 | 4.62 | 3.08 | 4.62 | -0.60 | 4.7 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 343 | -1551 | -3763 | 55 | -56 | -60 | -1341 | 3.08 | 4.62 | 3.08 | 4.62 | -12.94 | 102.4 | 0.00 |
| 4 | 343 | -1463 | -3467 | 47 | -39 | -49 | -1235 | 3.08 | 4.62 | 3.08 | 4.62 | -11.92 | 94.4 | 0.00 |
| 5 | 343 | -1433 | -3369 | 44 | -34 | -45 | -1199 | 3.08 | 4.62 | 3.08 | 4.62 | -11.57 | 91.6 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 381 | -1551 | -4624 | 55 | -56 | -81 | -2938 | 3.08 | 4.62 | 3.08 | 4.62 | -47.34 | 1888.1 | 0.11 |
| 4 | 381 | -1463 | -4261 | 47 | -39 | -67 | -2707 | 3.08 | 4.62 | 3.08 | 4.62 | -43.62 | 1739.7 | 0.10 |
| 5 | 381 | -1433 | -4140 | 44 | -34 | -62 | -2629 | 3.08 | 4.62 | 3.08 | 4.62 | -42.36 | 1689.5 | 0.09 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 41** NI 15519 NF 15516 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -1075 | 2699 | -315 | -66 | -552 | -1182 | 3.08 | 4.62 | 3.08 | 4.62 | -11.41 | 90.3 | 0.00 |
| 4 | 0 | -1012 | 2420 | -297 | -41 | -521 | -1096 | 3.08 | 4.62 | 3.08 | 4.62 | -10.58 | 83.7 | 0.00 |
| 5 | 0 | -991 | 2329 | -291 | -33 | -512 | -1073 | 3.08 | 4.62 | 3.08 | 4.62 | -10.36 | 82.0 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -1075 | 2143 | -315 | -66 | -440 | -322 | 3.08 | 4.62 | 3.08 | 4.62 | -3.11 | 24.6 | 0.00 |
| 4 | 36 | -1012 | 1922 | -297 | -41 | -416 | -325 | 3.08 | 4.62 | 3.08 | 4.62 | -3.13 | 24.8 | 0.00 |
| 5 | 36 | -991 | 1850 | -291 | -33 | -408 | -331 | 3.08 | 4.62 | 3.08 | 4.62 | -3.19 | 25.3 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | -1075 | 1587 | -315 | -66 | -329 | 341 | 3.08 | 4.62 | 4.62 | 3.08 | -3.29 | 26.0 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 71 | -1012 | 1424 | -297 | -41 | -310 | 269 | 3.08 | 4.62 | 4.62 | 3.08 | -2.60 | 20.6 | 0.00 |
| 5 | 71 | -991 | 1371 | -291 | -33 | -305 | 242 | 3.08 | 4.62 | 4.62 | 3.08 | -2.33 | 18.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | -1075 | 1030 | -315 | -66 | -217 | 806 | 3.08 | 4.62 | 4.62 | 3.08 | -7.78 | 61.6 | 0.00 |
| 4 | 107 | -1012 | 925 | -297 | -41 | -205 | 687 | 3.08 | 4.62 | 4.62 | 3.08 | -6.63 | 52.5 | 0.00 |
| 5 | 107 | -991 | 893 | -291 | -33 | -201 | 644 | 3.08 | 4.62 | 4.62 | 3.08 | -6.22 | 49.2 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | -1075 | 474 | -315 | -66 | -105 | 1073 | 3.08 | 4.62 | 4.62 | 3.08 | -10.36 | 82.0 | 0.00 |
| 4 | 142 | -1012 | 427 | -297 | -41 | -99 | 927 | 3.08 | 4.62 | 4.62 | 3.08 | -8.95 | 70.8 | 0.00 |
| 5 | 142 | -991 | 414 | -291 | -33 | -98 | 876 | 3.08 | 4.62 | 4.62 | 3.08 | -8.46 | 66.9 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | -1075 | -82 | -315 | -66 | 7 | 1143 | 4.62 | 3.08 | 4.62 | 3.08 | -11.03 | 87.3 | 0.00 |
| 4 | 178 | -1012 | -71 | -297 | -41 | 6 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | -9.56 | 75.6 | 0.00 |
| 5 | 178 | -991 | -65 | -291 | -33 | 6 | 938 | 4.62 | 3.08 | 4.62 | 3.08 | -9.05 | 71.7 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | -1075 | -638 | -315 | -66 | 119 | 1015 | 4.62 | 3.08 | 4.62 | 3.08 | -9.80 | 77.6 | 0.00 |
| 4 | 213 | -1012 | -569 | -297 | -41 | 112 | 876 | 4.62 | 3.08 | 4.62 | 3.08 | -8.46 | 67.0 | 0.00 |
| 5 | 213 | -991 | -544 | -291 | -33 | 109 | 830 | 4.62 | 3.08 | 4.62 | 3.08 | -8.01 | 63.4 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | -1075 | -1194 | -315 | -66 | 230 | 689 | 4.62 | 3.08 | 4.62 | 3.08 | -6.65 | 52.7 | 0.00 |
| 4 | 249 | -1012 | -1067 | -297 | -41 | 217 | 585 | 4.62 | 3.08 | 4.62 | 3.08 | -5.65 | 44.7 | 0.00 |
| 5 | 249 | -991 | -1023 | -291 | -33 | 213 | 552 | 4.62 | 3.08 | 4.62 | 3.08 | -5.32 | 42.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | -1075 | -1751 | -315 | -66 | 342 | 166 | 4.62 | 3.08 | 4.62 | 3.08 | -1.60 | 12.7 | 0.00 |
| 4 | 284 | -1012 | -1566 | -297 | -41 | 323 | 118 | 4.62 | 3.08 | 4.62 | 3.08 | -1.14 | 9.0 | 0.00 |
| 5 | 284 | -991 | -1501 | -291 | -33 | 316 | 103 | 4.62 | 3.08 | 4.62 | 3.08 | -1.00 | 7.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | -1075 | -2307 | -315 | -66 | 454 | -555 | 4.62 | 3.08 | 3.08 | 4.62 | -5.35 | 42.4 | 0.00 |
| 4 | 320 | -1012 | -2064 | -297 | -41 | 428 | -527 | 4.62 | 3.08 | 3.08 | 4.62 | -5.09 | 40.3 | 0.00 |
| 5 | 320 | -991 | -1980 | -291 | -33 | 420 | -515 | 4.62 | 3.08 | 3.08 | 4.62 | -4.97 | 39.4 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | -1075 | -2863 | -315 | -66 | 566 | -1473 | 4.62 | 3.08 | 3.08 | 4.62 | -14.22 | 112.5 | 0.00 |
| 4 | 355 | -1012 | -2562 | -297 | -41 | 534 | -1349 | 4.62 | 3.08 | 3.08 | 4.62 | -13.02 | 103.1 | 0.00 |
| 5 | 355 | -991 | -2459 | -291 | -33 | 523 | -1304 | 4.62 | 3.08 | 3.08 | 4.62 | -12.59 | 99.6 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 42** NI 14446 NF 15519 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.4925 5.6610 16.1535 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -527 | 3799 | -126 | -18 | -265 | -3548 | 3.08 | 4.62 | 3.08 | 4.62 | -57.17 | 2280.1 | 0.14 |
| 4 | 0 | -487 | 3347 | -120 | 10 | -253 | -3045 | 3.08 | 4.62 | 3.08 | 4.62 | -49.07 | 1956.9 | 0.12 |
| 5 | 0 | -474 | 3194 | -118 | 19 | -248 | -2873 | 3.08 | 4.62 | 3.08 | 4.62 | -46.30 | 1846.3 | 0.11 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -527 | 3202 | -126 | -18 | -219 | -2255 | 3.08 | 4.62 | 3.08 | 4.62 | -36.33 | 1448.9 | 0.07 |
| 4 | 37 | -487 | 2813 | -120 | 10 | -208 | -1907 | 3.08 | 4.62 | 3.08 | 4.62 | -18.41 | 145.7 | 0.00 |
| 5 | 37 | -474 | 2681 | -118 | 19 | -205 | -1788 | 3.08 | 4.62 | 3.08 | 4.62 | -17.25 | 136.6 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -527 | 2606 | -126 | -18 | -172 | -1182 | 3.08 | 4.62 | 3.08 | 4.62 | -11.40 | 90.3 | 0.00 |
| 4 | 74 | -487 | 2279 | -120 | 10 | -164 | -966 | 3.08 | 4.62 | 3.08 | 4.62 | -9.33 | 73.8 | 0.00 |
| 5 | 74 | -474 | 2168 | -118 | 19 | -161 | -892 | 3.08 | 4.62 | 3.08 | 4.62 | -8.61 | 68.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 111 | -527 | 2009 | -126 | -18 | -125 | -329 | 3.08 | 4.62 | 3.08 | 4.62 | -3.18 | 25.1 | 0.00 |
| 4 | 111 | -487 | 1745 | -120 | 10 | -120 | -223 | 3.08 | 4.62 | 3.08 | 4.62 | -2.15 | 17.0 | 0.00 |
| 5 | 111 | -474 | 1655 | -118 | 19 | -117 | -186 | 3.08 | 4.62 | 3.08 | 4.62 | -1.80 | 14.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | -527 | 1412 | -126 | -18 | -79 | 303 | 3.08 | 4.62 | 4.62 | 3.08 | -2.92 | 23.1 | 0.00 |
| 4 | 148 | -487 | 1211 | -120 | 10 | -75 | 323 | 3.08 | 4.62 | 4.62 | 3.08 | -3.12 | 24.7 | 0.00 |
| 5 | 148 | -474 | 1142 | -118 | 19 | -74 | 330 | 3.08 | 4.62 | 4.62 | 3.08 | -3.19 | 25.2 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 185 | -527 | 816 | -126 | -18 | -32 | 714 | 3.08 | 4.62 | 4.62 | 3.08 | -6.90 | 54.6 | 0.00 |
| 4 | 185 | -487 | 677 | -120 | 10 | -31 | 672 | 3.08 | 4.62 | 4.62 | 3.08 | -6.48 | 51.3 | 0.00 |
| 5 | 185 | -474 | 628 | -118 | 19 | -30 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | -6.34 | 50.2 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 222 | -527 | 219 | -126 | -18 | 15 | 905 | 4.62 | 3.08 | 4.62 | 3.08 | -8.74 | 69.2 | 0.00 |
| 4 | 222 | -487 | 143 | -120 | 10 | 14 | 823 | 4.62 | 3.08 | 4.62 | 3.08 | -7.95 | 62.9 | 0.00 |
| 5 | 222 | -474 | 115 | -118 | 19 | 14 | 795 | 4.62 | 3.08 | 4.62 | 3.08 | -7.67 | 60.7 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 259 | -527 | -378 | -126 | -18 | 61 | 876 | 4.62 | 3.08 | 4.62 | 3.08 | -8.46 | 66.9 | 0.00 |
| 4 | 259 | -487 | -391 | -120 | 10 | 58 | 778 | 4.62 | 3.08 | 4.62 | 3.08 | -7.50 | 59.4 | 0.00 |
| 5 | 259 | -474 | -398 | -118 | 19 | 57 | 742 | 4.62 | 3.08 | 4.62 | 3.08 | -7.17 | 56.7 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 296 | -527 | -975 | -126 | -18 | 108 | 626 | 4.62 | 3.08 | 4.62 | 3.08 | -6.04 | 47.8 | 0.00 |
| 4 | 296 | -487 | -925 | -120 | 10 | 103 | 534 | 4.62 | 3.08 | 4.62 | 3.08 | -5.16 | 40.8 | 0.00 |
| 5 | 296 | -474 | -911 | -118 | 19 | 101 | 501 | 4.62 | 3.08 | 4.62 | 3.08 | -4.83 | 38.2 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -527 | -1571 | -126 | -18 | 155 | 156 | 4.62 | 3.08 | 4.62 | 3.08 | -1.50 | 11.9 | 0.00 |
| 4 | 333 | -487 | -1459 | -120 | 10 | 147 | 94 | 4.62 | 3.08 | 4.62 | 3.08 | -0.91 | 7.2 | 0.00 |
| 5 | 333 | -474 | -1424 | -118 | 19 | 145 | 69 | 4.62 | 3.08 | 4.62 | 3.08 | -0.67 | 5.3 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 369 | -527 | -2168 | -126 | -18 | 201 | -535 | 4.62 | 3.08 | 3.08 | 4.62 | -5.17 | 40.9 | 0.00 |
| 4 | 369 | -487 | -1993 | -120 | 10 | 192 | -544 | 4.62 | 3.08 | 3.08 | 4.62 | -5.25 | 41.5 | 0.00 |
| 5 | 369 | -474 | -1937 | -118 | 19 | 188 | -552 | 4.62 | 3.08 | 3.08 | 4.62 | -5.33 | 42.2 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 44**  NI 15529  NF 15502  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  5.7400  5.0184  15.5709  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 161 | 9564 | -679 | 295 | -982 | -11155 | 3.08 | 6.16 | 4.62 | 9.24 | -72.31 | 2558.4 | 0.14 |
| 4 | 0 | 152 | 8801 | -641 | 214 | -927 | -10580 | 3.08 | 6.16 | 4.62 | 9.24 | -68.58 | 2426.4 | 0.13 |
| 5 | 0 | 150 | 8543 | -628 | 188 | -908 | -10369 | 3.08 | 6.16 | 4.62 | 9.24 | -67.21 | 2377.9 | 0.13 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 161 | 9055 | -679 | 295 | -760 | -9548 | 3.08 | 6.16 | 4.62 | 7.70 | -65.88 | 2608.5 | 0.15 |
| 4 | 33 | 152 | 8341 | -641 | 214 | -718 | -9098 | 3.08 | 6.16 | 4.62 | 7.70 | -62.78 | 2485.8 | 0.14 |
| 5 | 33 | 150 | 8100 | -628 | 188 | -703 | -8931 | 3.08 | 6.16 | 4.62 | 7.70 | -61.62 | 2440.0 | 0.14 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 161 | 8546 | -679 | 295 | -539 | -6672 | 3.08 | 6.16 | 3.08 | 6.16 | -52.01 | 2268.8 | 0.13 |
| 4 | 65 | 152 | 7882 | -641 | 214 | -509 | -6447 | 3.08 | 6.16 | 3.08 | 6.16 | -50.26 | 2192.5 | 0.12 |
| 5 | 65 | 150 | 7656 | -628 | 188 | -498 | -6356 | 3.08 | 6.16 | 3.08 | 6.16 | -49.55 | 2161.6 | 0.12 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 161 | 8037 | -679 | 295 | -317 | -3962 | 3.08 | 6.16 | 3.08 | 6.16 | -17.66 | 145.6 | 0.00 |
| 4 | 98 | 152 | 7422 | -641 | 214 | -299 | -3946 | 3.08 | 6.16 | 3.08 | 6.16 | -17.59 | 145.0 | 0.00 |
| 5 | 98 | 150 | 7213 | -628 | 188 | -293 | -3927 | 3.08 | 6.16 | 3.08 | 6.16 | -17.50 | 144.3 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 161 | 7528 | -679 | 295 | -95 | -1418 | 3.08 | 6.16 | 3.08 | 6.16 | -6.32 | 52.1 | 0.00 |
| 4 | 131 | 152 | 6962 | -641 | 214 | -90 | -1595 | 3.08 | 6.16 | 3.08 | 6.16 | -7.11 | 58.6 | 0.00 |
| 5 | 131 | 150 | 6770 | -628 | 188 | -88 | -1642 | 3.08 | 6.16 | 3.08 | 6.16 | -7.32 | 60.4 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 161 | 7019 | -679 | 295 | 127 | 959 | 6.16 | 3.08 | 6.16 | 3.08 | -4.27 | 35.2 | 0.00 |
| 4 | 163 | 152 | 6502 | -641 | 214 | 119 | 605 | 6.16 | 3.08 | 6.16 | 3.08 | -2.70 | 22.2 | 0.00 |
| 5 | 163 | 150 | 6327 | -628 | 188 | 118 | 497 | 6.16 | 3.08 | 6.16 | 3.08 | -2.22 | 18.3 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 161 | 6511 | -679 | 295 | 348 | 3170 | 6.16 | 3.08 | 6.16 | 3.08 | -14.13 | 116.5 | 0.00 |
| 4 | 196 | 152 | 6043 | -641 | 214 | 329 | 2656 | 6.16 | 3.08 | 6.16 | 3.08 | -11.84 | 97.6 | 0.00 |
| 5 | 196 | 150 | 5883 | -628 | 188 | 323 | 2492 | 6.16 | 3.08 | 6.16 | 3.08 | -11.11 | 91.6 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 161 | 6002 | -678 | 295 | 570 | 5214 | 6.16 | 3.08 | 6.16 | 3.08 | -40.65 | 1773.2 | 0.09 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 229 | 152 | 5583 | -640 | 214 | 538 | 4556 | 6.16 | 3.08 | 6.16 | 3.08 | -35.52 | 1549.3 | 0.07 |
| 5 | 229 | 150 | 5440 | -627 | 188 | 528 | 4342 | 6.16 | 3.08 | 6.16 | 3.08 | -19.35 | 159.6 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 161 | 5493 | -679 | 295 | 792 | 7092 | 6.16 | 3.08 | 6.16 | 3.08 | -55.29 | 2411.9 | 0.14 |
| 4 | 261 | 152 | 5123 | -641 | 214 | 747 | 6306 | 6.16 | 3.08 | 6.16 | 3.08 | -49.16 | 2144.4 | 0.12 |
| 5 | 261 | 150 | 4997 | -628 | 188 | 733 | 6047 | 6.16 | 3.08 | 6.16 | 3.08 | -47.14 | 2056.5 | 0.11 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 161 | 4984 | -679 | 295 | 1013 | 8804 | 6.16 | 3.08 | 7.70 | 3.08 | -63.34 | 2416.1 | 0.13 |
| 4 | 294 | 152 | 4664 | -641 | 214 | 957 | 7906 | 6.16 | 3.08 | 7.70 | 3.08 | -56.87 | 2169.4 | 0.12 |
| 5 | 294 | 150 | 4553 | -628 | 188 | 938 | 7608 | 6.16 | 3.08 | 7.70 | 3.08 | -54.73 | 2087.7 | 0.11 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 161 | 4475 | -679 | 295 | 1235 | 10350 | 6.16 | 3.08 | 7.70 | 3.08 | -74.46 | 2840.2 | 0.16 |
| 4 | 327 | 152 | 4204 | -641 | 214 | 1166 | 9355 | 6.16 | 3.08 | 7.70 | 3.08 | -67.30 | 2567.2 | 0.15 |
| 5 | 327 | 150 | 4110 | -628 | 188 | 1143 | 9023 | 6.16 | 3.08 | 7.70 | 3.08 | -64.91 | 2476.1 | 0.14 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 43** NI 15502 NF 14958 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.2300 5.4468 16.4893 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 345 | -1167 | 495 | -97 | 1040 | 9843 | 6.16 | 3.08 | 7.70 | 3.08 | -70.81 | 2701.1 | 0.15 |
| 4 | 0 | 333 | -931 | 468 | -64 | 986 | 8861 | 6.16 | 3.08 | 7.70 | 3.08 | -63.75 | 2431.6 | 0.14 |
| 5 | 0 | 330 | -853 | 460 | -54 | 970 | 8532 | 6.16 | 3.08 | 7.70 | 3.08 | -61.38 | 2341.3 | 0.13 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 345 | -1753 | 495 | -97 | 864 | 9325 | 6.16 | 3.08 | 7.70 | 3.08 | -67.08 | 2558.8 | 0.14 |
| 4 | 36 | 333 | -1458 | 468 | -64 | 820 | 8437 | 6.16 | 3.08 | 7.70 | 3.08 | -60.70 | 2315.2 | 0.13 |
| 5 | 36 | 330 | -1361 | 460 | -54 | 806 | 8139 | 6.16 | 3.08 | 7.70 | 3.08 | -58.55 | 2233.5 | 0.12 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 345 | -2338 | 495 | -97 | 689 | 8598 | 6.16 | 3.08 | 6.16 | 3.08 | -67.03 | 2924.0 | 0.18 |
| 4 | 71 | 333 | -1986 | 468 | -64 | 654 | 7825 | 6.16 | 3.08 | 6.16 | 3.08 | -61.00 | 2661.2 | 0.16 |
| 5 | 71 | 330 | -1869 | 460 | -54 | 643 | 7565 | 6.16 | 3.08 | 6.16 | 3.08 | -58.98 | 2572.7 | 0.16 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 345 | -2924 | 495 | -97 | 513 | 7664 | 6.16 | 3.08 | 6.16 | 3.08 | -59.75 | 2606.3 | 0.16 |
| 4 | 107 | 333 | -2513 | 468 | -64 | 488 | 7027 | 6.16 | 3.08 | 6.16 | 3.08 | -54.78 | 2389.6 | 0.14 |
| 5 | 107 | 330 | -2377 | 460 | -54 | 480 | 6811 | 6.16 | 3.08 | 6.16 | 3.08 | -53.10 | 2316.3 | 0.13 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 345 | -3509 | 495 | -97 | 338 | 6522 | 6.16 | 3.08 | 6.16 | 3.08 | -50.84 | 2217.9 | 0.13 |
| 4 | 142 | 333 | -3040 | 468 | -64 | 322 | 6041 | 6.16 | 3.08 | 6.16 | 3.08 | -47.09 | 2054.3 | 0.11 |
| 5 | 142 | 330 | -2886 | 460 | -54 | 317 | 5877 | 6.16 | 3.08 | 6.16 | 3.08 | -45.81 | 1998.6 | 0.11 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 345 | -4095 | 495 | -97 | 162 | 5172 | 6.16 | 3.08 | 6.16 | 3.08 | -40.32 | 1758.8 | 0.09 |
| 4 | 178 | 333 | -3568 | 468 | -64 | 156 | 4867 | 6.16 | 3.08 | 6.16 | 3.08 | -37.94 | 1655.3 | 0.08 |
| 5 | 178 | 330 | -3394 | 460 | -54 | 153 | 4762 | 6.16 | 3.08 | 6.16 | 3.08 | -37.12 | 1619.4 | 0.07 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 345 | -4680 | 495 | -97 | -14 | 3614 | 3.08 | 6.16 | 6.16 | 3.08 | -16.11 | 132.8 | 0.00 |
| 4 | 213 | 333 | -4095 | 468 | -64 | -11 | 3507 | 3.08 | 6.16 | 6.16 | 3.08 | -15.63 | 128.9 | 0.00 |
| 5 | 213 | 330 | -3902 | 460 | -54 | -10 | 3467 | 3.08 | 6.16 | 6.16 | 3.08 | -15.45 | 127.4 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 345 | -5266 | 495 | -97 | -189 | 1848 | 3.08 | 6.16 | 6.16 | 3.08 | -8.24 | 67.9 | 0.00 |
| 4 | 249 | 333 | -4623 | 468 | -64 | -177 | 1959 | 3.08 | 6.16 | 6.16 | 3.08 | -8.73 | 72.0 | 0.00 |
| 5 | 249 | 330 | -4410 | 460 | -54 | -173 | 1991 | 3.08 | 6.16 | 6.16 | 3.08 | -8.88 | 73.2 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 345 | -5851 | 495 | -97 | -365 | -125 | 3.08 | 6.16 | 6.16 | 6.16 | -0.54 | 4.5 | 0.00 |
| 4 | 284 | 333 | -5150 | 468 | -64 | -343 | 224 | 3.08 | 6.16 | 6.16 | 6.16 | -0.97 | 8.1 | 0.00 |
| 5 | 284 | 330 | -4918 | 460 | -54 | -337 | 335 | 3.08 | 6.16 | 6.16 | 6.16 | -1.45 | 12.2 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 345 | -6437 | 495 | -97 | -540 | -2307 | 3.08 | 6.16 | 3.08 | 6.16 | -10.28 | 84.8 | 0.00 |
| 4 | 320 | 333 | -5678 | 468 | -64 | -509 | -1698 | 3.08 | 6.16 | 3.08 | 6.16 | -7.57 | 62.4 | 0.00 |
| 5 | 320 | 330 | -5426 | 460 | -54 | -500 | -1501 | 3.08 | 6.16 | 3.08 | 6.16 | -6.69 | 55.2 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 345 | -7022 | 495 | -97 | -716 | -4696 | 3.08 | 6.16 | 3.08 | 6.16 | -36.61 | 1597.0 | 0.07 |
| 4 | 355 | 333 | -6205 | 468 | -64 | -675 | -3808 | 3.08 | 6.16 | 3.08 | 6.16 | -16.97 | 139.9 | 0.00 |
| 5 | 355 | 330 | -5934 | 460 | -54 | -663 | -3518 | 3.08 | 6.16 | 3.08 | 6.16 | -15.68 | 129.3 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 46**  NI 15524  NF 15505  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  5.7400  5.0184  15.5709  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 201 | 10300 | -406 | -298 | -515 | -15185 | 3.08 | 6.16 | 6.16 | 10.78 | -89.99 | 2991.1 | 0.15 |
| 4 | 0 | 160 | 9420 | -386 | -272 | -492 | -14317 | 3.08 | 6.16 | 6.16 | 10.78 | -84.84 | 2820.2 | 0.14 |
| 5 | 0 | 147 | 9126 | -379 | -263 | -483 | -14021 | 3.08 | 6.16 | 6.16 | 10.78 | -83.09 | 2761.9 | 0.14 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 201 | 9791 | -406 | -298 | -383 | -13448 | 3.08 | 6.16 | 6.16 | 10.78 | -79.69 | 2649.0 | 0.13 |
| 4 | 33 | 160 | 8960 | -386 | -272 | -365 | -12727 | 3.08 | 6.16 | 6.16 | 10.78 | -75.42 | 2506.9 | 0.13 |
| 5 | 33 | 147 | 8683 | -379 | -263 | -359 | -12480 | 3.08 | 6.16 | 6.16 | 10.78 | -73.96 | 2458.4 | 0.12 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 201 | 9282 | -406 | -298 | -250 | -10333 | 3.08 | 6.16 | 4.62 | 7.70 | -71.30 | 2823.0 | 0.16 |
| 4 | 65 | 160 | 8501 | -386 | -272 | -239 | -9874 | 3.08 | 6.16 | 4.62 | 7.70 | -68.13 | 2697.7 | 0.15 |
| 5 | 65 | 147 | 8239 | -379 | -263 | -235 | -9715 | 3.08 | 6.16 | 4.62 | 7.70 | -67.04 | 2654.3 | 0.15 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 201 | 8773 | -406 | -298 | -117 | -7383 | 3.08 | 6.16 | 3.08 | 6.16 | -57.56 | 2510.8 | 0.15 |
| 4 | 98 | 160 | 8041 | -386 | -272 | -113 | -7171 | 3.08 | 6.16 | 3.08 | 6.16 | -55.90 | 2438.7 | 0.14 |
| 5 | 98 | 147 | 7796 | -379 | -263 | -111 | -7095 | 3.08 | 6.16 | 3.08 | 6.16 | -55.31 | 2412.9 | 0.14 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 201 | 8264 | -406 | -298 | 15 | -4600 | 6.16 | 3.08 | 3.08 | 6.16 | -35.86 | 1564.4 | 0.07 |
| 4 | 131 | 160 | 7582 | -386 | -272 | 13 | -4619 | 6.16 | 3.08 | 3.08 | 6.16 | -36.01 | 1570.7 | 0.07 |
| 5 | 131 | 147 | 7353 | -379 | -263 | 12 | -4620 | 6.16 | 3.08 | 3.08 | 6.16 | -36.02 | 1571.1 | 0.07 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 201 | 7754 | -406 | -298 | 148 | -1984 | 6.16 | 3.08 | 3.08 | 6.16 | -8.84 | 72.9 | 0.00 |
| 4 | 163 | 160 | 7122 | -386 | -272 | 139 | -2217 | 6.16 | 3.08 | 3.08 | 6.16 | -9.88 | 81.5 | 0.00 |
| 5 | 163 | 147 | 6910 | -379 | -263 | 136 | -2290 | 6.16 | 3.08 | 3.08 | 6.16 | -10.21 | 84.1 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 201 | 7245 | -406 | -298 | 280 | 467 | 6.16 | 3.08 | 6.16 | 6.16 | -2.01 | 16.9 | 0.00 |
| 4 | 196 | 160 | 6662 | -386 | -272 | 265 | 35 | 6.16 | 3.08 | 6.16 | 6.16 | -0.15 | 1.3 | 0.00 |
| 5 | 196 | 147 | 6466 | -379 | -263 | 260 | -104 | 6.16 | 3.08 | 6.16 | 6.16 | -0.45 | 3.8 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 201 | 6736 | -406 | -298 | 413 | 2751 | 6.16 | 3.08 | 6.16 | 3.08 | -12.26 | 101.1 | 0.00 |
| 4 | 229 | 160 | 6203 | -386 | -272 | 391 | 2137 | 6.16 | 3.08 | 6.16 | 3.08 | -9.53 | 78.5 | 0.00 |
| 5 | 229 | 147 | 6023 | -379 | -263 | 384 | 1936 | 6.16 | 3.08 | 6.16 | 3.08 | -8.63 | 71.2 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 201 | 6227 | -406 | -298 | 546 | 4868 | 6.16 | 3.08 | 6.16 | 3.08 | -37.95 | 1655.6 | 0.08 |
| 4 | 261 | 160 | 5743 | -386 | -272 | 517 | 4089 | 6.16 | 3.08 | 6.16 | 3.08 | -18.22 | 150.3 | 0.00 |
| 5 | 261 | 147 | 5580 | -379 | -263 | 507 | 3832 | 6.16 | 3.08 | 6.16 | 3.08 | -17.08 | 140.8 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 201 | 5718 | -406 | -298 | 678 | 6820 | 6.16 | 3.08 | 6.16 | 3.08 | -53.16 | 2319.2 | 0.13 |
| 4 | 294 | 160 | 5284 | -386 | -272 | 643 | 5890 | 6.16 | 3.08 | 6.16 | 3.08 | -45.92 | 2003.0 | 0.11 |
| 5 | 294 | 147 | 5136 | -379 | -263 | 631 | 5583 | 6.16 | 3.08 | 6.16 | 3.08 | -43.52 | 1898.6 | 0.10 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 201 | 5209 | -406 | -298 | 811 | 8605 | 6.16 | 3.08 | 6.16 | 3.08 | -67.08 | 2926.3 | 0.18 |
| 4 | 327 | 160 | 4824 | -386 | -272 | 769 | 7541 | 6.16 | 3.08 | 6.16 | 3.08 | -58.79 | 2564.5 | 0.15 |
| 5 | 327 | 147 | 4693 | -379 | -263 | 755 | 7189 | 6.16 | 3.08 | 6.16 | 3.08 | -56.04 | 2444.8 | 0.14 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 45**  NI 15505  NF 14957  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.2300  5.4468  16.4893  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 405 | -1292 | 594 | -102 | 1228 | 8679 | 6.16 | 3.08 | 6.16 | 3.08 | -67.66 | 2951.5 | 0.18 |
| 4 | 0 | 345 | -943 | 568 | -92 | 1171 | 7609 | 6.16 | 3.08 | 6.16 | 3.08 | -59.32 | 2587.6 | 0.16 |
| 5 | 0 | 326 | -829 | 560 | -89 | 1154 | 7254 | 6.16 | 3.08 | 6.16 | 3.08 | -56.55 | 2466.9 | 0.15 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 36 | 405 | -1878 | 594 | -102 | 1017 | 8116 | 6.16 | 3.08 | 6.16 | 3.08 | -63.27 | 2760.1 | 0.17 |
| 4 | 36 | 345 | -1470 | 568 | -92 | 969 | 7181 | 6.16 | 3.08 | 6.16 | 3.08 | -55.98 | 2441.9 | 0.14 |
| 5 | 36 | 326 | -1337 | 560 | -89 | 955 | 6870 | 6.16 | 3.08 | 6.16 | 3.08 | -53.55 | 2336.1 | 0.14 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 71 | 405 | -2463 | 594 | -102 | 806 | 7346 | 6.16 | 3.08 | 6.16 | 3.08 | -57.26 | 2498.1 | 0.15 |
| 4 | 71 | 345 | -1997 | 568 | -92 | 768 | 6565 | 6.16 | 3.08 | 6.16 | 3.08 | -51.18 | 2232.6 | 0.13 |
| 5 | 71 | 326 | -1845 | 560 | -89 | 756 | 6305 | 6.16 | 3.08 | 6.16 | 3.08 | -49.15 | 2144.0 | 0.12 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 107 | 405 | -3049 | 594 | -102 | 595 | 6367 | 6.16 | 3.08 | 6.16 | 3.08 | -49.64 | 2165.4 | 0.12 |
| 4 | 107 | 345 | -2525 | 568 | -92 | 566 | 5762 | 6.16 | 3.08 | 6.16 | 3.08 | -44.92 | 1959.5 | 0.10 |
| 5 | 107 | 326 | -2353 | 560 | -89 | 557 | 5559 | 6.16 | 3.08 | 6.16 | 3.08 | -43.34 | 1890.6 | 0.10 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 142 | 405 | -3634 | 594 | -102 | 384 | 5181 | 6.16 | 3.08 | 6.16 | 3.08 | -40.39 | 1761.9 | 0.09 |
| 4 | 142 | 345 | -3052 | 568 | -92 | 364 | 4772 | 6.16 | 3.08 | 6.16 | 3.08 | -37.20 | 1622.8 | 0.07 |
| 5 | 142 | 326 | -2861 | 560 | -89 | 358 | 4634 | 6.16 | 3.08 | 6.16 | 3.08 | -36.12 | 1575.8 | 0.07 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 178 | 405 | -4220 | 594 | -102 | 173 | 3787 | 6.16 | 3.08 | 6.16 | 3.08 | -16.88 | 139.2 | 0.00 |
| 4 | 178 | 345 | -3580 | 568 | -92 | 163 | 3594 | 6.16 | 3.08 | 6.16 | 3.08 | -16.02 | 132.1 | 0.00 |
| 5 | 178 | 326 | -3369 | 560 | -89 | 159 | 3528 | 6.16 | 3.08 | 6.16 | 3.08 | -15.72 | 129.6 | 0.00 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 213 | 405 | -4805 | 594 | -102 | -38 | 2185 | 3.08 | 6.16 | 6.16 | 3.08 | -9.74 | 80.3 | 0.00 |
| 4 | 213 | 345 | -4107 | 568 | -92 | -39 | 2230 | 3.08 | 6.16 | 6.16 | 3.08 | -9.94 | 81.9 | 0.00 |
| 5 | 213 | 326 | -3877 | 560 | -89 | -40 | 2241 | 3.08 | 6.16 | 6.16 | 3.08 | -9.99 | 82.4 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 249 | 405 | -5391 | 594 | -102 | -249 | 375 | 3.08 | 6.16 | 6.16 | 3.08 | -1.67 | 13.8 | 0.00 |
| 4 | 249 | 345 | -4635 | 568 | -92 | -241 | 678 | 3.08 | 6.16 | 6.16 | 3.08 | -3.02 | 24.9 | 0.00 |
| 5 | 249 | 326 | -4386 | 560 | -89 | -239 | 774 | 3.08 | 6.16 | 6.16 | 3.08 | -3.45 | 28.5 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 284 | 405 | -5976 | 594 | -102 | -460 | -1643 | 3.08 | 6.16 | 3.08 | 6.16 | -7.32 | 60.4 | 0.00 |
| 4 | 284 | 345 | -5162 | 568 | -92 | -442 | -1062 | 3.08 | 6.16 | 3.08 | 6.16 | -4.73 | 39.0 | 0.00 |
| 5 | 284 | 326 | -4894 | 560 | -89 | -438 | -873 | 3.08 | 6.16 | 3.08 | 6.16 | -3.89 | 32.1 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 320 | 405 | -6562 | 594 | -102 | -671 | -3868 | 3.08 | 6.16 | 3.08 | 6.16 | -17.24 | 142.2 | 0.00 |
| 4 | 320 | 345 | -5690 | 568 | -92 | -644 | -2988 | 3.08 | 6.16 | 3.08 | 6.16 | -13.32 | 109.8 | 0.00 |
| 5 | 320 | 326 | -5402 | 560 | -89 | -637 | -2701 | 3.08 | 6.16 | 3.08 | 6.16 | -12.04 | 99.3 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 355 | 405 | -7147 | 594 | -102 | -882 | -6302 | 3.08 | 6.16 | 3.08 | 6.16 | -49.13 | 2143.1 | 0.12 |
| 4 | 355 | 345 | -6217 | 568 | -92 | -846 | -5102 | 3.08 | 6.16 | 3.08 | 6.16 | -39.77 | 1735.0 | 0.08 |
| 5 | 355 | 326 | -5910 | 560 | -89 | -836 | -4709 | 3.08 | 6.16 | 3.08 | 6.16 | -36.71 | 1601.4 | 0.07 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 48** NI 15523 NF 15526 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 10.6600 5.0184 20.4909 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 287 | 11900 | -304 | 167 | -349 | -17075 | 3.08 | 6.16 | 6.16 | 12.32 | -96.96 | 2960.2 | 0.15 |
| 4 | 0 | 246 | 11120 | -289 | 168 | -332 | -16362 | 3.08 | 6.16 | 6.16 | 12.32 | -92.91 | 2836.6 | 0.14 |
| 5 | 0 | 232 | 10850 | -283 | 168 | -326 | -16123 | 3.08 | 6.16 | 6.16 | 12.32 | -91.55 | 2795.1 | 0.14 |
| apost= -- aant= 3.08 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 33 | 287 | 11231 | -304 | 167 | -249 | -15079 | 3.08 | 6.16 | 6.16 | 10.78 | -89.36 | 2970.3 | 0.15 |
| 4 | 33 | 246 | 10499 | -289 | 168 | -238 | -14499 | 3.08 | 6.16 | 6.16 | 10.78 | -85.92 | 2855.9 | 0.15 |
| 5 | 33 | 232 | 10246 | -283 | 168 | -234 | -14302 | 3.08 | 6.16 | 6.16 | 10.78 | -84.75 | 2817.2 | 0.14 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 287 | 10562 | -304 | 167 | -150 | -11517 | 3.08 | 6.16 | 4.62 | 9.24 | -74.66 | 2641.4 | 0.14 |
| 4 | 65 | 246 | 9878 | -289 | 168 | -144 | -11170 | 3.08 | 6.16 | 4.62 | 9.24 | -72.40 | 2561.7 | 0.14 |
| 5 | 65 | 232 | 9642 | -283 | 168 | -141 | -11051 | 3.08 | 6.16 | 4.62 | 9.24 | -71.63 | 2534.5 | 0.13 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 287 | 9892 | -304 | 167 | -51 | -8174 | 3.08 | 6.16 | 3.08 | 6.16 | -63.72 | 2779.7 | 0.17 |
| 4 | 98 | 246 | 9258 | -289 | 168 | -49 | -8044 | 3.08 | 6.16 | 3.08 | 6.16 | -62.71 | 2735.5 | 0.17 |
| 5 | 98 | 232 | 9039 | -283 | 168 | -49 | -7998 | 3.08 | 6.16 | 3.08 | 6.16 | -62.35 | 2719.8 | 0.17 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 287 | 9223 | -304 | 167 | 49 | -5050 | 6.16 | 3.08 | 3.08 | 6.16 | -39.37 | 1717.3 | 0.08 |
| 4 | 131 | 246 | 8637 | -289 | 168 | 45 | -5121 | 6.16 | 3.08 | 3.08 | 6.16 | -39.92 | 1741.4 | 0.09 |
| 5 | 131 | 232 | 8435 | -283 | 168 | 44 | -5142 | 6.16 | 3.08 | 3.08 | 6.16 | -40.08 | 1748.6 | 0.09 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 287 | 8554 | -304 | 167 | 148 | -2144 | 6.16 | 3.08 | 3.08 | 6.16 | -9.56 | 78.8 | 0.00 |
| 4 | 163 | 246 | 8016 | -289 | 168 | 139 | -2400 | 6.16 | 3.08 | 3.08 | 6.16 | -10.70 | 88.2 | 0.00 |
| 5 | 163 | 232 | 7831 | -283 | 168 | 137 | -2483 | 6.16 | 3.08 | 3.08 | 6.16 | -11.07 | 91.3 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 287 | 7885 | -304 | 167 | 247 | 542 | 6.16 | 3.08 | 6.16 | 6.16 | -2.34 | 19.7 | 0.00 |
| 4 | 196 | 246 | 7395 | -289 | 168 | 234 | 117 | 6.16 | 3.08 | 6.16 | 6.16 | -0.51 | 4.3 | 0.00 |
| 5 | 196 | 232 | 7227 | -283 | 168 | 229 | -22 | 6.16 | 3.08 | 6.16 | 6.16 | -0.10 | 0.8 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 287 | 7216 | -304 | 167 | 347 | 3010 | 6.16 | 3.08 | 6.16 | 3.08 | -13.42 | 110.6 | 0.00 |
| 4 | 229 | 246 | 6774 | -289 | 168 | 328 | 2432 | 6.16 | 3.08 | 6.16 | 3.08 | -10.84 | 89.4 | 0.00 |
| 5 | 229 | 232 | 6623 | -283 | 168 | 322 | 2241 | 6.16 | 3.08 | 6.16 | 3.08 | -9.99 | 82.4 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 287 | 6546 | -304 | 167 | 446 | 5259 | 6.16 | 3.08 | 6.16 | 3.08 | -41.00 | 1788.4 | 0.09 |
| 4 | 261 | 246 | 6154 | -289 | 168 | 422 | 4544 | 6.16 | 3.08 | 6.16 | 3.08 | -35.42 | 1545.3 | 0.07 |
| 5 | 261 | 232 | 6020 | -283 | 168 | 414 | 4308 | 6.16 | 3.08 | 6.16 | 3.08 | -19.20 | 158.3 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 287 | 5877 | -304 | 167 | 545 | 7289 | 6.16 | 3.08 | 6.16 | 3.08 | -56.82 | 2478.7 | 0.15 |
| 4 | 294 | 246 | 5533 | -289 | 168 | 517 | 6453 | 6.16 | 3.08 | 6.16 | 3.08 | -50.31 | 2194.6 | 0.12 |
| 5 | 294 | 232 | 5416 | -283 | 168 | 507 | 6177 | 6.16 | 3.08 | 6.16 | 3.08 | -48.15 | 2100.5 | 0.12 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 287 | 5208 | -304 | 167 | 645 | 9100 | 6.16 | 3.08 | 7.70 | 3.08 | -65.47 | 2497.2 | 0.14 |
| 4 | 327 | 246 | 4912 | -289 | 168 | 611 | 8160 | 6.16 | 3.08 | 7.70 | 3.08 | -58.71 | 2239.3 | 0.12 |
| 5 | 327 | 232 | 4812 | -283 | 168 | 599 | 7848 | 6.16 | 3.08 | 7.70 | 3.08 | -56.46 | 2153.6 | 0.12 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 47**  NI 15526  NF 14959  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  11.5700  5.4468  21.8293  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 208 | -564 | 610 | -244 | 1291 | 9144 | 6.16 | 3.08 | 7.70 | 3.08 | -65.78 | 2509.3 | 0.14 |
| 4 | 0 | 181 | -309 | 587 | -225 | 1234 | 8200 | 6.16 | 3.08 | 7.70 | 3.08 | -58.99 | 2250.2 | 0.12 |
| 5 | 0 | 171 | -226 | 580 | -219 | 1216 | 7887 | 6.16 | 3.08 | 7.70 | 3.08 | -56.74 | 2164.3 | 0.12 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 208 | -1339 | 610 | -244 | 1075 | 8806 | 6.16 | 3.08 | 6.16 | 3.08 | -68.65 | 2994.7 | 0.19 |
| 4 | 36 | 181 | -1026 | 587 | -225 | 1026 | 7963 | 6.16 | 3.08 | 6.16 | 3.08 | -62.08 | 2708.0 | 0.17 |
| 5 | 36 | 171 | -923 | 580 | -219 | 1010 | 7683 | 6.16 | 3.08 | 6.16 | 3.08 | -59.89 | 2612.7 | 0.16 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 208 | -2114 | 610 | -244 | 858 | 8193 | 6.16 | 3.08 | 6.16 | 3.08 | -63.87 | 2786.3 | 0.17 |
| 4 | 71 | 181 | -1743 | 587 | -225 | 817 | 7472 | 6.16 | 3.08 | 6.16 | 3.08 | -58.25 | 2540.9 | 0.15 |
| 5 | 71 | 171 | -1621 | 580 | -219 | 804 | 7231 | 6.16 | 3.08 | 6.16 | 3.08 | -56.37 | 2459.1 | 0.15 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 208 | -2889 | 610 | -244 | 642 | 7305 | 6.16 | 3.08 | 6.16 | 3.08 | -56.95 | 2484.3 | 0.15 |
| 4 | 107 | 181 | -2460 | 587 | -225 | 609 | 6726 | 6.16 | 3.08 | 6.16 | 3.08 | -52.43 | 2287.2 | 0.13 |
| 5 | 107 | 171 | -2319 | 580 | -219 | 598 | 6532 | 6.16 | 3.08 | 6.16 | 3.08 | -50.92 | 2221.2 | 0.13 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 208 | -3664 | 610 | -244 | 425 | 6142 | 6.16 | 3.08 | 6.16 | 3.08 | -47.88 | 2088.7 | 0.12 |
| 4 | 142 | 181 | -3177 | 587 | -225 | 401 | 5725 | 6.16 | 3.08 | 6.16 | 3.08 | -44.63 | 1946.9 | 0.10 |
| 5 | 142 | 171 | -3017 | 580 | -219 | 392 | 5585 | 6.16 | 3.08 | 6.16 | 3.08 | -43.53 | 1899.1 | 0.10 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 208 | -4439 | 610 | -244 | 209 | 4703 | 6.16 | 3.08 | 6.16 | 3.08 | -36.67 | 1599.5 | 0.07 |
| 4 | 178 | 181 | -3894 | 587 | -225 | 192 | 4470 | 6.16 | 3.08 | 6.16 | 3.08 | -34.85 | 1520.1 | 0.06 |
| 5 | 178 | 171 | -3714 | 580 | -219 | 186 | 4390 | 6.16 | 3.08 | 6.16 | 3.08 | -19.57 | 161.3 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 208 | -5214 | 610 | -244 | -8 | 2990 | 3.08 | 6.16 | 6.16 | 3.08 | -13.33 | 109.9 | 0.00 |
| 4 | 213 | 181 | -4611 | 587 | -225 | -16 | 2960 | 3.08 | 6.16 | 6.16 | 3.08 | -13.19 | 108.8 | 0.00 |
| 5 | 213 | 171 | -4412 | 580 | -219 | -19 | 2947 | 3.08 | 6.16 | 6.16 | 3.08 | -13.14 | 108.3 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 208 | -5989 | 610 | -244 | -224 | 1001 | 3.08 | 6.16 | 6.16 | 3.08 | -4.46 | 36.8 | 0.00 |
| 4 | 249 | 181 | -5328 | 587 | -225 | -225 | 1196 | 3.08 | 6.16 | 6.16 | 3.08 | -5.33 | 43.9 | 0.00 |
| 5 | 249 | 171 | -5110 | 580 | -219 | -225 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | -5.60 | 46.2 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 208 | -6764 | 610 | -244 | -441 | -1263 | 3.08 | 6.16 | 3.08 | 6.16 | -5.63 | 46.4 | 0.00 |
| 4 | 284 | 181 | -6045 | 587 | -225 | -433 | -823 | 3.08 | 6.16 | 3.08 | 6.16 | -3.67 | 30.3 | 0.00 |
| 5 | 284 | 171 | -5808 | 580 | -219 | -431 | -682 | 3.08 | 6.16 | 3.08 | 6.16 | -3.04 | 25.0 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 208 | -7539 | 610 | -244 | -657 | -3803 | 3.08 | 6.16 | 3.08 | 6.16 | -16.95 | 139.7 | 0.00 |
| 4 | 320 | 181 | -6762 | 587 | -225 | -641 | -3097 | 3.08 | 6.16 | 3.08 | 6.16 | -13.80 | 113.8 | 0.00 |
| 5 | 320 | 171 | -6505 | 580 | -219 | -637 | -2867 | 3.08 | 6.16 | 3.08 | 6.16 | -12.78 | 105.4 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 208 | -8314 | 610 | -244 | -874 | -6617 | 3.08 | 6.16 | 3.08 | 6.16 | -51.58 | 2250.2 | 0.13 |
| 4 | 355 | 181 | -7479 | 587 | -225 | -850 | -5625 | 3.08 | 6.16 | 3.08 | 6.16 | -43.85 | 1912.9 | 0.10 |
| 5 | 355 | 171 | -7203 | 580 | -219 | -843 | -5301 | 3.08 | 6.16 | 3.08 | 6.16 | -41.32 | 1802.7 | 0.09 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 50** NI 15522 NF 15510 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 10.6600 5.0184 20.4909 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 486 | 13020 | -272 | 8 | -285 | -18967 | 3.08 | 6.16 | 7.70 | 13.85 | -100.16 | 2925.2 | 0.14 |
| 4 | 0 | 414 | 12210 | -256 | 16 | -268 | -18239 | 3.08 | 6.16 | 7.70 | 13.85 | -96.32 | 2812.9 | 0.13 |
| 5 | 0 | 389 | 11940 | -250 | 18 | -262 | -17989 | 3.08 | 6.16 | 7.70 | 13.85 | -95.00 | 2774.4 | 0.13 |

apost= -- aant= 3.08 ainf= 4.62 asup= 10.78 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 486 | 12350 | -272 | 8 | -196 | -16774 | 3.08 | 6.16 | 6.16 | 12.32 | -95.25 | 2908.0 | 0.14 |
| 4 | 33 | 414 | 11590 | -256 | 16 | -184 | -16180 | 3.08 | 6.16 | 6.16 | 12.32 | -91.88 | 2805.0 | 0.14 |
| 5 | 33 | 389 | 11336 | -250 | 18 | -180 | -15976 | 3.08 | 6.16 | 6.16 | 12.32 | -90.72 | 2769.6 | 0.14 |

apost= -- aant= 3.08 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 486 | 11680 | -272 | 8 | -107 | -12847 | 3.08 | 6.16 | 4.62 | 9.24 | -83.28 | 2946.4 | 0.16 |
| 4 | 65 | 414 | 10970 | -256 | 16 | -100 | -12493 | 3.08 | 6.16 | 4.62 | 9.24 | -80.98 | 2865.1 | 0.16 |
| 5 | 65 | 389 | 10732 | -250 | 18 | -98 | -12369 | 3.08 | 6.16 | 4.62 | 9.24 | -80.18 | 2836.7 | 0.15 |

apost= -- aant= 3.08 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 486 | 11011 | -272 | 8 | -18 | -9139 | 3.08 | 6.16 | 3.08 | 7.70 | -65.75 | 2507.9 | 0.14 |
| 4 | 98 | 414 | 10349 | -256 | 16 | -17 | -9008 | 3.08 | 6.16 | 3.08 | 7.70 | -64.81 | 2472.1 | 0.14 |
| 5 | 98 | 389 | 10128 | -250 | 18 | -16 | -8959 | 3.08 | 6.16 | 3.08 | 7.70 | -64.45 | 2458.6 | 0.14 |

apost= -- aant= 3.08 ainf= -- asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 486 | 10341 | -272 | 8 | 71 | -5650 | 6.16 | 3.08 | 3.08 | 6.16 | -44.04 | 1921.3 | 0.10 |
| 4 | 131 | 414 | 9729 | -256 | 16 | 67 | -5727 | 6.16 | 3.08 | 3.08 | 6.16 | -44.64 | 1947.5 | 0.10 |
| 5 | 131 | 389 | 9524 | -250 | 18 | 66 | -5747 | 6.16 | 3.08 | 3.08 | 6.16 | -44.80 | 1954.4 | 0.10 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 486 | 9671 | -272 | 8 | 160 | -2379 | 6.16 | 3.08 | 3.08 | 6.16 | -10.61 | 87.4 | 0.00 |
| 4 | 163 | 414 | 9109 | -256 | 16 | 151 | -2648 | 6.16 | 3.08 | 3.08 | 6.16 | -11.80 | 97.3 | 0.00 |
| 5 | 163 | 389 | 8920 | -250 | 18 | 148 | -2732 | 6.16 | 3.08 | 3.08 | 6.16 | -12.18 | 100.4 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 486 | 9001 | -272 | 8 | 249 | 672 | 6.16 | 3.08 | 6.16 | 3.08 | -3.00 | 24.7 | 0.00 |
| 4 | 196 | 414 | 8489 | -256 | 16 | 234 | 228 | 6.16 | 3.08 | 6.16 | 3.08 | -1.02 | 8.4 | 0.00 |
| 5 | 196 | 389 | 8317 | -250 | 18 | 229 | 85 | 6.16 | 3.08 | 6.16 | 3.08 | -0.38 | 3.1 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 486 | 8331 | -272 | 8 | 339 | 3505 | 6.16 | 3.08 | 6.16 | 3.08 | -15.62 | 128.8 | 0.00 |
| 4 | 229 | 414 | 7869 | -256 | 16 | 318 | 2902 | 6.16 | 3.08 | 6.16 | 3.08 | -12.93 | 106.6 | 0.00 |
| 5 | 229 | 389 | 7713 | -250 | 18 | 311 | 2705 | 6.16 | 3.08 | 6.16 | 3.08 | -12.06 | 99.4 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 486 | 7662 | -272 | 8 | 428 | 6119 | 6.16 | 3.08 | 6.16 | 3.08 | -47.70 | 2080.8 | 0.11 |
| 4 | 261 | 414 | 7248 | -256 | 16 | 402 | 5372 | 6.16 | 3.08 | 6.16 | 3.08 | -41.88 | 1826.9 | 0.09 |
| 5 | 261 | 389 | 7109 | -250 | 18 | 393 | 5127 | 6.16 | 3.08 | 6.16 | 3.08 | -39.97 | 1743.6 | 0.09 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 486 | 6992 | -272 | 8 | 517 | 8514 | 6.16 | 3.08 | 6.16 | 3.08 | -66.37 | 2895.3 | 0.18 |
| 4 | 294 | 414 | 6628 | -256 | 16 | 485 | 7640 | 6.16 | 3.08 | 6.16 | 3.08 | -59.56 | 2598.1 | 0.16 |
| 5 | 294 | 389 | 6505 | -250 | 18 | 475 | 7352 | 6.16 | 3.08 | 6.16 | 3.08 | -57.32 | 2500.3 | 0.15 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 486 | 6322 | -272 | 8 | 606 | 10690 | 6.16 | 3.08 | 7.70 | 3.08 | -76.91 | 2933.5 | 0.17 |
| 4 | 327 | 414 | 6008 | -256 | 16 | 569 | 9705 | 6.16 | 3.08 | 7.70 | 3.08 | -69.82 | 2663.2 | 0.15 |
| 5 | 327 | 389 | 5901 | -250 | 18 | 557 | 9380 | 6.16 | 3.08 | 7.70 | 3.08 | -67.48 | 2574.1 | 0.15 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 49**  NI 15510  NF 14913  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  11.5700  5.4468  21.8293  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 565 | -2001 | 680 | -160 | 1296 | 10680 | 6.16 | 3.08 | 7.70 | 3.08 | -76.84 | 2930.8 | 0.17 |
| 4 | 0 | 483 | -1630 | 650 | -150 | 1241 | 9696 | 6.16 | 3.08 | 7.70 | 3.08 | -69.76 | 2660.8 | 0.15 |
| 5 | 0 | 454 | -1509 | 641 | -147 | 1223 | 9370 | 6.16 | 3.08 | 7.70 | 3.08 | -67.41 | 2571.3 | 0.15 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 565 | -2776 | 680 | -160 | 1055 | 9832 | 6.16 | 3.08 | 7.70 | 3.08 | -70.74 | 2698.2 | 0.15 |
| 4 | 36 | 483 | -2347 | 650 | -150 | 1010 | 8990 | 6.16 | 3.08 | 7.70 | 3.08 | -64.68 | 2467.0 | 0.14 |
| 5 | 36 | 454 | -2207 | 641 | -147 | 996 | 8710 | 6.16 | 3.08 | 7.70 | 3.08 | -62.66 | 2390.3 | 0.13 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 565 | -3551 | 680 | -160 | 813 | 8710 | 6.16 | 3.08 | 6.16 | 3.08 | -67.90 | 2961.8 | 0.19 |
| 4 | 71 | 483 | -3064 | 650 | -150 | 779 | 8029 | 6.16 | 3.08 | 6.16 | 3.08 | -62.59 | 2730.5 | 0.17 |
| 5 | 71 | 454 | -2904 | 641 | -147 | 768 | 7803 | 6.16 | 3.08 | 6.16 | 3.08 | -60.83 | 2653.5 | 0.16 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 565 | -4326 | 680 | -160 | 572 | 7312 | 6.16 | 3.08 | 6.16 | 3.08 | -57.00 | 2486.4 | 0.15 |
| 4 | 107 | 483 | -3781 | 650 | -150 | 548 | 6814 | 6.16 | 3.08 | 6.16 | 3.08 | -53.12 | 2317.2 | 0.13 |
| 5 | 107 | 454 | -3602 | 641 | -147 | 541 | 6648 | 6.16 | 3.08 | 6.16 | 3.08 | -51.82 | 2260.7 | 0.13 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 565 | -5101 | 680 | -160 | 330 | 5638 | 6.16 | 3.08 | 6.16 | 3.08 | -43.95 | 1917.4 | 0.10 |
| 4 | 142 | 483 | -4498 | 650 | -150 | 317 | 5344 | 6.16 | 3.08 | 6.16 | 3.08 | -41.66 | 1817.3 | 0.09 |
| 5 | 142 | 454 | -4300 | 641 | -147 | 313 | 5245 | 6.16 | 3.08 | 6.16 | 3.08 | -40.89 | 1783.6 | 0.09 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 565 | -5877 | 680 | -160 | 89 | 3690 | 6.16 | 3.08 | 6.16 | 3.08 | -16.45 | 135.6 | 0.00 |
| 4 | 178 | 483 | -5216 | 650 | -150 | 87 | 3619 | 6.16 | 3.08 | 6.16 | 3.08 | -16.13 | 133.0 | 0.00 |
| 5 | 178 | 454 | -4998 | 641 | -147 | 86 | 3594 | 6.16 | 3.08 | 6.16 | 3.08 | -16.02 | 132.1 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 565 | -6652 | 680 | -160 | -153 | 1466 | 3.08 | 6.16 | 6.16 | 3.08 | -6.54 | 53.9 | 0.00 |
| 4 | 213 | 483 | -5933 | 650 | -150 | -144 | 1640 | 3.08 | 6.16 | 6.16 | 3.08 | -7.31 | 60.3 | 0.00 |
| 5 | 213 | 454 | -5695 | 641 | -147 | -142 | 1696 | 3.08 | 6.16 | 6.16 | 3.08 | -7.56 | 62.3 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 565 | -7427 | 680 | -160 | -394 | -1032 | 3.08 | 6.16 | 3.08 | 6.16 | -4.60 | 37.9 | 0.00 |
| 4 | 249 | 483 | -6650 | 650 | -150 | -375 | -593 | 3.08 | 6.16 | 3.08 | 6.16 | -2.64 | 21.8 | 0.00 |
| 5 | 249 | 454 | -6393 | 641 | -147 | -369 | -450 | 3.08 | 6.16 | 3.08 | 6.16 | -2.01 | 16.5 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 565 | -8202 | 680 | -160 | -636 | -3806 | 3.08 | 6.16 | 3.08 | 6.16 | -16.97 | 139.9 | 0.00 |
| 4 | 284 | 483 | -7367 | 650 | -150 | -606 | -3082 | 3.08 | 6.16 | 3.08 | 6.16 | -13.74 | 113.2 | 0.00 |
| 5 | 284 | 454 | -7091 | 641 | -147 | -597 | -2844 | 3.08 | 6.16 | 3.08 | 6.16 | -12.68 | 104.5 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 565 | -8977 | 680 | -160 | -877 | -6856 | 3.08 | 6.16 | 3.08 | 6.16 | -53.44 | 2331.4 | 0.14 |
| 4 | 320 | 483 | -8084 | 650 | -150 | -837 | -5825 | 3.08 | 6.16 | 3.08 | 6.16 | -45.41 | 1980.7 | 0.11 |
| 5 | 320 | 454 | -7788 | 641 | -147 | -824 | -5486 | 3.08 | 6.16 | 3.08 | 6.16 | -42.76 | 1865.5 | 0.10 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 565 | -9752 | 680 | -160 | -1119 | -10180 | 3.08 | 6.16 | 4.62 | 7.70 | -70.24 | 2781.3 | 0.16 |
| 4 | 355 | 483 | -8801 | 650 | -150 | -1068 | -8822 | 3.08 | 6.16 | 4.62 | 7.70 | -60.87 | 2410.3 | 0.13 |
| 5 | 355 | 454 | -8486 | 641 | -147 | -1052 | -8375 | 3.08 | 6.16 | 4.62 | 7.70 | -57.79 | 2288.1 | 0.13 |

apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 54** NI 15520 NF 15516 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 11.5620 5.0184 21.3929 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 1653 | 12340 | -140 | -18 | -136 | -17179 | 3.08 | 6.16 | 6.16 | 12.32 | -97.55 | 2978.2 | 0.15 |
| 4 | 0 | 1538 | 11550 | -132 | -27 | -130 | -16428 | 3.08 | 6.16 | 6.16 | 12.32 | -93.28 | 2847.9 | 0.14 |
| 5 | 0 | 1499 | 11280 | -129 | -30 | -127 | -16178 | 3.08 | 6.16 | 6.16 | 12.32 | -91.86 | 2804.7 | 0.14 |

apost= -- aant= 3.08 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 1653 | 11641 | -140 | -18 | -90 | -15112 | 3.08 | 6.16 | 6.16 | 10.78 | -89.55 | 2976.8 | 0.15 |
| 4 | 33 | 1538 | 10900 | -132 | -27 | -87 | -14494 | 3.08 | 6.16 | 6.16 | 10.78 | -85.89 | 2854.9 | 0.15 |
| 5 | 33 | 1499 | 10646 | -129 | -30 | -85 | -14288 | 3.08 | 6.16 | 6.16 | 10.78 | -84.67 | 2814.4 | 0.14 |

apost= -- aant= 3.08 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 1653 | 10941 | -140 | -18 | -45 | -11423 | 3.08 | 6.16 | 4.62 | 9.24 | -74.04 | 2619.7 | 0.14 |
| 4 | 65 | 1538 | 10249 | -132 | -27 | -43 | -11040 | 3.08 | 6.16 | 4.62 | 9.24 | -71.56 | 2531.8 | 0.13 |
| 5 | 65 | 1499 | 10013 | -129 | -30 | -43 | -10912 | 3.08 | 6.16 | 4.62 | 9.24 | -70.73 | 2502.6 | 0.13 |

apost= -- aant= 3.08 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 1653 | 10242 | -140 | -18 | 1 | -7961 | 3.08 | 3.08 | 3.08 | 6.16 | -62.06 | 2707.4 | 0.17 |
| 4 | 98 | 1538 | 9599 | -132 | -27 | -0 | -7798 | 3.08 | 3.08 | 3.08 | 6.16 | -60.79 | 2651.8 | 0.16 |
| 5 | 98 | 1499 | 9379 | -129 | -30 | -1 | -7744 | 3.08 | 3.08 | 3.08 | 6.16 | -60.37 | 2633.5 | 0.16 |

apost= -- aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 1653 | 9543 | -140 | -18 | 47 | -4729 | 6.16 | 3.08 | 3.08 | 6.16 | -36.86 | 1608.2 | 0.07 |
| 4 | 131 | 1538 | 8948 | -132 | -27 | 43 | -4769 | 6.16 | 3.08 | 3.08 | 6.16 | -37.17 | 1621.7 | 0.07 |
| 5 | 131 | 1499 | 8745 | -129 | -30 | 42 | -4783 | 6.16 | 3.08 | 3.08 | 6.16 | -37.28 | 1626.4 | 0.07 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 1653 | 8843 | -140 | -18 | 93 | -1725 | 6.16 | 3.08 | 3.08 | 6.16 | -7.69 | 63.4 | 0.00 |
| 4 | 163 | 1538 | 8298 | -132 | -27 | 86 | -1952 | 6.16 | 3.08 | 3.08 | 6.16 | -8.70 | 71.7 | 0.00 |
| 5 | 163 | 1499 | 8111 | -129 | -30 | 84 | -2028 | 6.16 | 3.08 | 3.08 | 6.16 | -9.04 | 74.5 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 1653 | 8144 | -140 | -18 | 138 | 1051 | 6.16 | 3.08 | 6.16 | 3.08 | -4.68 | 38.6 | 0.00 |
| 4 | 196 | 1538 | 7648 | -132 | -27 | 129 | 652 | 6.16 | 3.08 | 6.16 | 3.08 | -2.91 | 24.0 | 0.00 |
| 5 | 196 | 1499 | 7478 | -129 | -30 | 126 | 519 | 6.16 | 3.08 | 6.16 | 3.08 | -2.31 | 19.1 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 1653 | 7445 | -140 | -18 | 184 | 3598 | 6.16 | 3.08 | 6.16 | 3.08 | -16.04 | 132.2 | 0.00 |
| 4 | 229 | 1538 | 6997 | -132 | -27 | 172 | 3044 | 6.16 | 3.08 | 6.16 | 3.08 | -13.57 | 111.9 | 0.00 |
| 5 | 229 | 1499 | 6844 | -129 | -30 | 168 | 2859 | 6.16 | 3.08 | 6.16 | 3.08 | -12.74 | 105.1 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 1653 | 6746 | -140 | -18 | 230 | 5916 | 6.16 | 3.08 | 6.16 | 3.08 | -46.12 | 2011.9 | 0.11 |
| 4 | 261 | 1538 | 6347 | -132 | -27 | 216 | 5224 | 6.16 | 3.08 | 6.16 | 3.08 | -40.72 | 1776.5 | 0.09 |
| 5 | 261 | 1499 | 6210 | -129 | -30 | 211 | 4992 | 6.16 | 3.08 | 6.16 | 3.08 | -38.92 | 1697.6 | 0.08 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 1653 | 6046 | -140 | -18 | 276 | 8006 | 6.16 | 3.08 | 6.16 | 3.08 | -62.41 | 2722.7 | 0.17 |
| 4 | 294 | 1538 | 5696 | -132 | -27 | 259 | 7191 | 6.16 | 3.08 | 6.16 | 3.08 | -56.06 | 2445.5 | 0.14 |
| 5 | 294 | 1499 | 5577 | -129 | -30 | 253 | 6918 | 6.16 | 3.08 | 6.16 | 3.08 | -53.93 | 2352.6 | 0.14 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 1653 | 5347 | -140 | -18 | 321 | 9868 | 6.16 | 3.08 | 7.70 | 3.08 | -70.99 | 2708.0 | 0.15 |
| 4 | 327 | 1538 | 5046 | -132 | -27 | 302 | 8946 | 6.16 | 3.08 | 7.70 | 3.08 | -64.36 | 2455.0 | 0.14 |
| 5 | 327 | 1499 | 4943 | -129 | -30 | 295 | 8637 | 6.16 | 3.08 | 7.70 | 3.08 | -62.14 | 2370.2 | 0.13 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 53** NI 15516 NF 14916 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.

qy medio: 4.8125 12.5490 5.4468 22.8083 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 2023 | -1506 | 335 | 239 | 760 | 9878 | 6.16 | 3.08 | 7.70 | 3.08 | -71.07 | 2710.7 | 0.15 |
| 4 | 0 | 1881 | -1191 | 319 | 215 | 723 | 8948 | 6.16 | 3.08 | 7.70 | 3.08 | -64.37 | 2455.5 | 0.14 |
| 5 | 0 | 1835 | -1086 | 313 | 208 | 711 | 8636 | 6.16 | 3.08 | 7.70 | 3.08 | -62.13 | 2369.9 | 0.13 |
| apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 36 | 2023 | -2316 | 335 | 239 | 641 | 9199 | 6.16 | 3.08 | 7.70 | 3.08 | -66.18 | 2524.5 | 0.14 |
| 4 | 36 | 1881 | -1943 | 319 | 215 | 610 | 8392 | 6.16 | 3.08 | 7.70 | 3.08 | -60.37 | 2302.8 | 0.13 |
| 5 | 36 | 1835 | -1819 | 313 | 208 | 600 | 8120 | 6.16 | 3.08 | 7.70 | 3.08 | -58.42 | 2228.4 | 0.12 |
| apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 71 | 2023 | -3126 | 335 | 239 | 522 | 8233 | 6.16 | 3.08 | 6.16 | 3.08 | -64.18 | 2799.9 | 0.17 |
| 4 | 71 | 1881 | -2695 | 319 | 215 | 497 | 7568 | 6.16 | 3.08 | 6.16 | 3.08 | -59.00 | 2573.7 | 0.16 |
| 5 | 71 | 1835 | -2551 | 313 | 208 | 489 | 7345 | 6.16 | 3.08 | 6.16 | 3.08 | -57.26 | 2497.7 | 0.15 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 107 | 2023 | -3935 | 335 | 239 | 402 | 6980 | 6.16 | 3.08 | 6.16 | 3.08 | -54.41 | 2373.6 | 0.14 |
| 4 | 107 | 1881 | -3446 | 319 | 215 | 384 | 6478 | 6.16 | 3.08 | 6.16 | 3.08 | -50.50 | 2203.0 | 0.13 |
| 5 | 107 | 1835 | -3284 | 313 | 208 | 378 | 6309 | 6.16 | 3.08 | 6.16 | 3.08 | -49.18 | 2145.5 | 0.12 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 142 | 2023 | -4745 | 335 | 239 | 283 | 5438 | 6.16 | 3.08 | 6.16 | 3.08 | -42.40 | 1849.4 | 0.09 |
| 4 | 142 | 1881 | -4198 | 319 | 215 | 271 | 5121 | 6.16 | 3.08 | 6.16 | 3.08 | -39.92 | 1741.4 | 0.09 |
| 5 | 142 | 1835 | -4016 | 313 | 208 | 267 | 5013 | 6.16 | 3.08 | 6.16 | 3.08 | -39.08 | 1704.9 | 0.08 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 178 | 2023 | -5555 | 335 | 239 | 164 | 3610 | 6.16 | 3.08 | 6.16 | 3.08 | -16.09 | 132.7 | 0.00 |
| 4 | 178 | 1881 | -4950 | 319 | 215 | 158 | 3497 | 6.16 | 3.08 | 6.16 | 3.08 | -15.59 | 128.5 | 0.00 |
| 5 | 178 | 1835 | -4749 | 313 | 208 | 155 | 3457 | 6.16 | 3.08 | 6.16 | 3.08 | -15.41 | 127.1 | 0.00 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 213 | 2023 | -6365 | 335 | 239 | 45 | 1493 | 6.16 | 3.08 | 6.16 | 3.08 | -6.66 | 54.9 | 0.00 |
| 4 | 213 | 1881 | -5702 | 319 | 215 | 44 | 1606 | 6.16 | 3.08 | 6.16 | 3.08 | -7.16 | 59.0 | 0.00 |
| 5 | 213 | 1835 | -5481 | 313 | 208 | 44 | 1641 | 6.16 | 3.08 | 6.16 | 3.08 | -7.32 | 60.3 | 0.00 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 249 | 2023 | -7175 | 335 | 239 | -74 | -910 | 3.08 | 6.16 | 3.08 | 6.16 | -4.06 | 33.5 | 0.00 |
| 4 | 249 | 1881 | -6454 | 319 | 215 | -69 | -552 | 3.08 | 6.16 | 3.08 | 6.16 | -2.46 | 20.3 | 0.00 |
| 5 | 249 | 1835 | -6214 | 313 | 208 | -67 | -435 | 3.08 | 6.16 | 3.08 | 6.16 | -1.94 | 16.0 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 284 | 2023 | -7984 | 335 | 239 | -193 | -3602 | 3.08 | 6.16 | 3.08 | 6.16 | -16.05 | 132.4 | 0.00 |
| 4 | 284 | 1881 | -7205 | 319 | 215 | -182 | -2977 | 3.08 | 6.16 | 3.08 | 6.16 | -13.27 | 109.4 | 0.00 |
| 5 | 284 | 1835 | -6946 | 313 | 208 | -178 | -2771 | 3.08 | 6.16 | 3.08 | 6.16 | -12.35 | 101.8 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 320 | 2023 | -8794 | 335 | 239 | -312 | -6581 | 3.08 | 6.16 | 3.08 | 6.16 | -51.30 | 2237.8 | 0.13 |
| 4 | 320 | 1881 | -7957 | 319 | 215 | -295 | -5669 | 3.08 | 6.16 | 3.08 | 6.16 | -44.19 | 1927.9 | 0.10 |
| 5 | 320 | 1835 | -7678 | 313 | 208 | -290 | -5367 | 3.08 | 6.16 | 3.08 | 6.16 | -41.84 | 1825.1 | 0.09 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 355 | 2023 | -9604 | 335 | 239 | -431 | -9847 | 3.08 | 6.16 | 4.62 | 7.70 | -67.95 | 2690.3 | 0.15 |
| 4 | 355 | 1881 | -8709 | 319 | 215 | -408 | -8628 | 3.08 | 6.16 | 4.62 | 7.70 | -59.54 | 2357.3 | 0.13 |
| 5 | 355 | 1835 | -8411 | 313 | 208 | -401 | -8223 | 3.08 | 6.16 | 4.62 | 7.70 | -56.74 | 2246.6 | 0.12 |
| apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 56** NI 15525 NF 15519 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.6420 5.0184 16.4729 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 2184 | 9292 | -25 | -390 | 67 | -12806 | 6.16 | 3.08 | 4.62 | 9.24 | -83.01 | 2937.0 | 0.16 |
| 4 | 0 | 1973 | 8542 | -27 | -338 | 56 | -12039 | 6.16 | 3.08 | 4.62 | 9.24 | -78.04 | 2761.0 | 0.15 |
| 5 | 0 | 1905 | 8297 | -28 | -321 | 53 | -11795 | 6.16 | 3.08 | 4.62 | 9.24 | -76.46 | 2705.2 | 0.15 |
| apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 2184 | 8754 | -25 | -390 | 75 | -11251 | 6.16 | 3.08 | 4.62 | 9.24 | -72.93 | 2580.3 | 0.14 |
| 4 | 33 | 1973 | 8053 | -27 | -338 | 65 | -10609 | 6.16 | 3.08 | 4.62 | 9.24 | -68.77 | 2433.0 | 0.13 |
| 5 | 33 | 1905 | 7824 | -28 | -321 | 62 | -10406 | 6.16 | 3.08 | 4.62 | 9.24 | -67.45 | 2386.5 | 0.13 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 2184 | 8215 | -25 | -390 | 83 | -8478 | 6.16 | 3.08 | 3.08 | 6.16 | -66.09 | 2883.1 | 0.18 |
| 4 | 65 | 1973 | 7564 | -27 | -338 | 74 | -8057 | 6.16 | 3.08 | 3.08 | 6.16 | -62.81 | 2739.9 | 0.17 |
| 5 | 65 | 1905 | 7351 | -28 | -321 | 71 | -7926 | 6.16 | 3.08 | 3.08 | 6.16 | -61.79 | 2695.5 | 0.16 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 2184 | 7677 | -25 | -390 | 92 | -5881 | 6.16 | 3.08 | 3.08 | 6.16 | -45.84 | 1999.9 | 0.11 |
| 4 | 98 | 1973 | 7074 | -27 | -338 | 83 | -5665 | 6.16 | 3.08 | 3.08 | 6.16 | -44.16 | 1926.5 | 0.10 |
| 5 | 98 | 1905 | 6879 | -28 | -321 | 81 | -5601 | 6.16 | 3.08 | 3.08 | 6.16 | -43.66 | 1904.7 | 0.10 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 2184 | 7138 | -25 | -390 | 100 | -3460 | 6.16 | 3.08 | 3.08 | 6.16 | -15.42 | 127.1 | 0.00 |
| 4 | 131 | 1973 | 6585 | -27 | -338 | 92 | -3433 | 6.16 | 3.08 | 3.08 | 6.16 | -15.30 | 126.2 | 0.00 |
| 5 | 131 | 1905 | 6406 | -28 | -321 | 90 | -3430 | 6.16 | 3.08 | 3.08 | 6.16 | -15.29 | 126.1 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 2184 | 6600 | -25 | -390 | 108 | -1214 | 6.16 | 3.08 | 3.08 | 6.16 | -5.41 | 44.6 | 0.00 |
| 4 | 163 | 1973 | 6096 | -27 | -338 | 101 | -1361 | 6.16 | 3.08 | 3.08 | 6.16 | -6.07 | 50.0 | 0.00 |
| 5 | 163 | 1905 | 5933 | -28 | -321 | 99 | -1414 | 6.16 | 3.08 | 3.08 | 6.16 | -6.30 | 52.0 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 2184 | 6062 | -25 | -390 | 116 | 855 | 6.16 | 3.08 | 6.16 | 3.08 | -3.81 | 31.4 | 0.00 |
| 4 | 196 | 1973 | 5607 | -27 | -338 | 110 | 551 | 6.16 | 3.08 | 6.16 | 3.08 | -2.46 | 20.2 | 0.00 |
| 5 | 196 | 1905 | 5460 | -28 | -321 | 108 | 447 | 6.16 | 3.08 | 6.16 | 3.08 | -1.99 | 16.4 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 2184 | 5523 | -25 | -390 | 124 | 2748 | 6.16 | 3.08 | 6.16 | 3.08 | -12.25 | 101.0 | 0.00 |
| 4 | 229 | 1973 | 5118 | -27 | -338 | 119 | 2303 | 6.16 | 3.08 | 6.16 | 3.08 | -10.27 | 84.6 | 0.00 |
| 5 | 229 | 1905 | 4987 | -28 | -321 | 117 | 2155 | 6.16 | 3.08 | 6.16 | 3.08 | -9.60 | 79.2 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 2184 | 4985 | -25 | -390 | 133 | 4466 | 6.16 | 3.08 | 6.16 | 3.08 | -34.81 | 1518.7 | 0.06 |
| 4 | 261 | 1973 | 4628 | -27 | -338 | 128 | 3896 | 6.16 | 3.08 | 6.16 | 3.08 | -17.36 | 143.2 | 0.00 |
| 5 | 261 | 1905 | 4515 | -28 | -321 | 126 | 3707 | 6.16 | 3.08 | 6.16 | 3.08 | -16.52 | 136.2 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 2184 | 4446 | -25 | -390 | 141 | 6007 | 6.16 | 3.08 | 6.16 | 3.08 | -46.83 | 2042.9 | 0.11 |
| 4 | 294 | 1973 | 4139 | -27 | -338 | 137 | 5328 | 6.16 | 3.08 | 6.16 | 3.08 | -41.54 | 1812.0 | 0.09 |
| 5 | 294 | 1905 | 4042 | -28 | -321 | 135 | 5105 | 6.16 | 3.08 | 6.16 | 3.08 | -39.80 | 1736.2 | 0.08 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 2184 | 3908 | -25 | -390 | 149 | 7373 | 6.16 | 3.08 | 6.16 | 3.08 | -57.48 | 2507.3 | 0.15 |
| 4 | 327 | 1973 | 3650 | -27 | -338 | 146 | 6601 | 6.16 | 3.08 | 6.16 | 3.08 | -51.46 | 2244.8 | 0.13 |
| 5 | 327 | 1905 | 3569 | -28 | -321 | 144 | 6349 | 6.16 | 3.08 | 6.16 | 3.08 | -49.49 | 2159.1 | 0.12 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 55** NI 15519 NF 14915 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 7.2090 5.4468 17.4683 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 1996 | -960 | 523 | 257 | 902 | 7325 | 6.16 | 3.08 | 6.16 | 3.08 | -57.10 | 2491.0 | 0.15 |
| 4 | 0 | 1797 | -763 | 498 | 215 | 859 | 6551 | 6.16 | 3.08 | 6.16 | 3.08 | -51.07 | 2227.8 | 0.13 |
| 5 | 0 | 1732 | -697 | 489 | 201 | 844 | 6296 | 6.16 | 3.08 | 6.16 | 3.08 | -49.08 | 2141.1 | 0.12 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | 1996 | -1580 | 523 | 257 | 717 | 6874 | 6.16 | 3.08 | 6.16 | 3.08 | -53.59 | 2337.7 | 0.14 |
| 4 | 36 | 1797 | -1325 | 498 | 215 | 682 | 6180 | 6.16 | 3.08 | 6.16 | 3.08 | -48.18 | 2101.8 | 0.12 |
| 5 | 36 | 1732 | -1240 | 489 | 201 | 671 | 5952 | 6.16 | 3.08 | 6.16 | 3.08 | -46.40 | 2024.1 | 0.11 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 1996 | -2200 | 523 | 257 | 531 | 6203 | 6.16 | 3.08 | 6.16 | 3.08 | -48.36 | 2109.6 | 0.12 |
| 4 | 71 | 1797 | -1887 | 498 | 215 | 506 | 5610 | 6.16 | 3.08 | 6.16 | 3.08 | -43.74 | 1907.9 | 0.10 |
| 5 | 71 | 1732 | -1783 | 489 | 201 | 497 | 5416 | 6.16 | 3.08 | 6.16 | 3.08 | -42.22 | 1841.7 | 0.09 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | 1996 | -2820 | 523 | 257 | 345 | 5312 | 6.16 | 3.08 | 6.16 | 3.08 | -41.41 | 1806.5 | 0.09 |
| 4 | 107 | 1797 | -2449 | 498 | 215 | 329 | 4841 | 6.16 | 3.08 | 6.16 | 3.08 | -37.74 | 1646.1 | 0.08 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 107 | 1732 | -2326 | 489 | 201 | 324 | 4686 | 6.16 | 3.08 | 6.16 | 3.08 | -36.53 | 1593.7 | 0.07 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | 1996 | -3441 | 523 | 257 | 160 | 4201 | 6.16 | 3.08 | 6.16 | 3.08 | -18.72 | 154.4 | 0.00 |
| 4 | 142 | 1797 | -3012 | 498 | 215 | 153 | 3871 | 6.16 | 3.08 | 6.16 | 3.08 | -17.26 | 142.3 | 0.00 |
| 5 | 142 | 1732 | -2869 | 489 | 201 | 150 | 3764 | 6.16 | 3.08 | 6.16 | 3.08 | -16.78 | 138.3 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | 1996 | -4061 | 523 | 257 | -26 | 2869 | 3.08 | 6.16 | 6.16 | 3.08 | -12.79 | 105.4 | 0.00 |
| 4 | 178 | 1797 | -3574 | 498 | 215 | -24 | 2702 | 3.08 | 6.16 | 6.16 | 3.08 | -12.04 | 99.3 | 0.00 |
| 5 | 178 | 1732 | -3412 | 489 | 201 | -23 | 2649 | 3.08 | 6.16 | 6.16 | 3.08 | -11.81 | 97.4 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | 1996 | -4681 | 523 | 257 | -212 | 1317 | 3.08 | 6.16 | 6.16 | 3.08 | -5.87 | 48.4 | 0.00 |
| 4 | 213 | 1797 | -4136 | 498 | 215 | -201 | 1334 | 3.08 | 6.16 | 6.16 | 3.08 | -5.94 | 49.0 | 0.00 |
| 5 | 213 | 1732 | -3954 | 489 | 201 | -197 | 1342 | 3.08 | 6.16 | 6.16 | 3.08 | -5.98 | 49.3 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | 1996 | -5301 | 523 | 257 | -397 | -455 | 3.08 | 6.16 | 3.08 | 6.16 | -2.03 | 16.7 | 0.00 |
| 4 | 249 | 1797 | -4698 | 498 | 215 | -377 | -235 | 3.08 | 6.16 | 3.08 | 6.16 | -1.05 | 8.6 | 0.00 |
| 5 | 249 | 1732 | -4497 | 489 | 201 | -371 | -159 | 3.08 | 6.16 | 3.08 | 6.16 | -0.71 | 5.8 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | 1996 | -5922 | 523 | 257 | -583 | -2447 | 3.08 | 6.16 | 3.08 | 6.16 | -10.91 | 89.9 | 0.00 |
| 4 | 284 | 1797 | -5261 | 498 | 215 | -554 | -2002 | 3.08 | 6.16 | 3.08 | 6.16 | -8.93 | 73.6 | 0.00 |
| 5 | 284 | 1732 | -5040 | 489 | 201 | -544 | -1852 | 3.08 | 6.16 | 3.08 | 6.16 | -8.25 | 68.0 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | 1996 | -6542 | 523 | 257 | -769 | -4659 | 3.08 | 6.16 | 3.08 | 6.16 | -36.32 | 1584.5 | 0.07 |
| 4 | 320 | 1797 | -5823 | 498 | 215 | -731 | -3970 | 3.08 | 6.16 | 3.08 | 6.16 | -17.69 | 145.9 | 0.00 |
| 5 | 320 | 1732 | -5583 | 489 | 201 | -718 | -3737 | 3.08 | 6.16 | 3.08 | 6.16 | -16.66 | 137.3 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | 1996 | -7162 | 523 | 257 | -955 | -7092 | 3.08 | 6.16 | 3.08 | 6.16 | -55.29 | 2411.8 | 0.14 |
| 4 | 355 | 1797 | -6385 | 498 | 215 | -907 | -6137 | 3.08 | 6.16 | 3.08 | 6.16 | -47.84 | 2087.0 | 0.12 |
| 5 | 355 | 1732 | -6126 | 489 | 201 | -891 | -5816 | 3.08 | 6.16 | 3.08 | 6.16 | -45.34 | 1977.8 | 0.11 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 59** NI 15085 NF 15507 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.2300 5.4468 18.6768 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 145 | 10680 | -416 | 808 | -830 | -12180 | 4.62 | 9.24 | 4.62 | 9.24 | -49.24 | 2138.8 | 0.11 |
| 4 | 0 | 110 | 9601 | -389 | 738 | -770 | -10610 | 4.62 | 9.24 | 4.62 | 9.24 | -42.90 | 1863.1 | 0.09 |
| 5 | 0 | 99 | 9244 | -380 | 715 | -750 | -10090 | 4.62 | 9.24 | 4.62 | 9.24 | -40.79 | 1771.8 | 0.08 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | 145 | 10020 | -416 | 808 | -684 | -8527 | 4.62 | 9.24 | 4.62 | 9.24 | -34.47 | 1497.4 | 0.06 |
| 4 | 35 | 110 | 8999 | -389 | 738 | -633 | -7327 | 4.62 | 9.24 | 4.62 | 9.24 | -17.53 | 147.9 | 0.00 |
| 5 | 35 | 99 | 8662 | -380 | 715 | -615 | -6929 | 4.62 | 9.24 | 4.62 | 9.24 | -16.58 | 139.9 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 145 | 9360 | -416 | 808 | -537 | -5107 | 4.62 | 9.24 | 4.62 | 9.24 | -12.22 | 103.1 | 0.00 |
| 4 | 71 | 110 | 8398 | -389 | 738 | -495 | -4256 | 4.62 | 9.24 | 4.62 | 9.24 | -10.18 | 85.9 | 0.00 |
| 5 | 71 | 99 | 8079 | -380 | 715 | -481 | -3975 | 4.62 | 9.24 | 4.62 | 9.24 | -9.51 | 80.3 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 106 | 145 | 8700 | -416 | 808 | -390 | -1920 | 4.62 | 9.24 | 3.08 | 9.24 | -4.65 | 39.0 | 0.00 |
| 4 | 106 | 110 | 7796 | -389 | 738 | -358 | -1398 | 4.62 | 9.24 | 3.08 | 9.24 | -3.39 | 28.4 | 0.00 |
| 5 | 106 | 99 | 7497 | -380 | 715 | -347 | -1225 | 4.62 | 9.24 | 3.08 | 9.24 | -2.97 | 24.9 | 0.00 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 141 | 145 | 8040 | -416 | 808 | -243 | 1034 | 4.62 | 9.24 | 9.24 | 3.08 | -2.50 | 21.0 | 0.00 |
| 4 | 141 | 110 | 7194 | -389 | 738 | -221 | 1248 | 4.62 | 9.24 | 9.24 | 3.08 | -3.02 | 25.3 | 0.00 |
| 5 | 141 | 99 | 6914 | -380 | 715 | -213 | 1318 | 4.62 | 9.24 | 9.24 | 3.08 | -3.19 | 26.8 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 177 | 145 | 7380 | -416 | 808 | -97 | 3755 | 4.62 | 9.24 | 9.24 | 3.08 | -9.10 | 76.2 | 0.00 |
| 4 | 177 | 110 | 6592 | -389 | 738 | -84 | 3681 | 4.62 | 9.24 | 9.24 | 3.08 | -8.92 | 74.7 | 0.00 |
| 5 | 177 | 99 | 6332 | -380 | 715 | -79 | 3656 | 4.62 | 9.24 | 9.24 | 3.08 | -8.86 | 74.2 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 212 | 145 | 6721 | -416 | 808 | 50 | 6244 | 9.24 | 4.62 | 9.24 | 3.08 | -15.13 | 126.7 | 0.00 |
| 4 | 212 | 110 | 5991 | -389 | 738 | 53 | 5902 | 9.24 | 4.62 | 9.24 | 3.08 | -14.30 | 119.8 | 0.00 |
| 5 | 212 | 99 | 5749 | -380 | 715 | 55 | 5788 | 9.24 | 4.62 | 9.24 | 3.08 | -14.02 | 117.5 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 247 | 145 | 6061 | -416 | 808 | 197 | 8500 | 9.24 | 4.62 | 9.24 | 3.08 | -35.51 | 1498.2 | 0.06 |
| 4 | 247 | 110 | 5389 | -389 | 738 | 190 | 7910 | 9.24 | 4.62 | 9.24 | 3.08 | -19.16 | 160.5 | 0.00 |
| 5 | 247 | 99 | 5167 | -380 | 715 | 189 | 7715 | 9.24 | 4.62 | 9.24 | 3.08 | -18.69 | 156.6 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 282 | 145 | 5401 | -416 | 808 | 344 | 10523 | 9.24 | 4.62 | 9.24 | 3.08 | -43.96 | 1854.8 | 0.09 |
| 4 | 282 | 110 | 4787 | -389 | 738 | 328 | 9706 | 9.24 | 4.62 | 9.24 | 3.08 | -40.54 | 1710.8 | 0.08 |
| 5 | 282 | 99 | 4584 | -380 | 715 | 323 | 9435 | 9.24 | 4.62 | 9.24 | 3.08 | -39.42 | 1663.1 | 0.07 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 318 | 145 | 4741 | -416 | 808 | 491 | 12313 | 9.24 | 4.62 | 9.24 | 3.08 | -51.44 | 2170.3 | 0.11 |
| 4 | 318 | 110 | 4186 | -389 | 738 | 465 | 11289 | 9.24 | 4.62 | 9.24 | 3.08 | -47.16 | 1989.9 | 0.10 |
| 5 | 318 | 99 | 4002 | -380 | 715 | 457 | 10951 | 9.24 | 4.62 | 9.24 | 3.08 | -45.74 | 1930.2 | 0.09 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 353 | 145 | 4081 | -416 | 808 | 637 | 13870 | 9.24 | 4.62 | 9.24 | 3.08 | -57.94 | 2444.8 | 0.13 |
| 4 | 353 | 110 | 3584 | -389 | 738 | 602 | 12660 | 9.24 | 4.62 | 9.24 | 3.08 | -52.89 | 2231.5 | 0.12 |
| 5 | 353 | 99 | 3419 | -380 | 715 | 591 | 12260 | 9.24 | 4.62 | 9.24 | 3.08 | -51.21 | 2161.0 | 0.11 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 58** NI 15507 NF 15506 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 5.7400 5.0184 17.7584 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 74 | 1565 | 153 | -120 | 489 | 14220 | 9.24 | 4.62 | 9.24 | 3.08 | -59.40 | 2506.5 | 0.14 |
| 4 | 0 | 45 | 1337 | 146 | -120 | 465 | 12990 | 9.24 | 4.62 | 9.24 | 3.08 | -54.26 | 2289.7 | 0.12 |
| 5 | 0 | 36 | 1263 | 144 | -120 | 458 | 12580 | 9.24 | 4.62 | 9.24 | 3.08 | -52.55 | 2217.4 | 0.12 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 74 | 987 | 153 | -120 | 439 | 14636 | 9.24 | 3.08 | 9.24 | 3.08 | -61.14 | 2579.7 | 0.14 |
| 4 | 33 | 45 | 808 | 146 | -120 | 418 | 13339 | 9.24 | 3.08 | 9.24 | 3.08 | -55.72 | 2351.3 | 0.12 |
| 5 | 33 | 36 | 750 | 144 | -120 | 411 | 12908 | 9.24 | 3.08 | 9.24 | 3.08 | -53.92 | 2275.2 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 74 | 408 | 153 | -120 | 389 | 14863 | 9.24 | 3.08 | 9.24 | 3.08 | -62.09 | 2619.8 | 0.14 |
| 4 | 65 | 45 | 279 | 146 | -120 | 370 | 13517 | 9.24 | 3.08 | 9.24 | 3.08 | -56.46 | 2382.5 | 0.13 |
| 5 | 65 | 36 | 237 | 144 | -120 | 364 | 13068 | 9.24 | 3.08 | 9.24 | 3.08 | -54.59 | 2303.5 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 74 | -170 | 153 | -120 | 339 | 14902 | 9.24 | 3.08 | 9.24 | 3.08 | -62.25 | 2626.7 | 0.14 |
| 4 | 98 | 45 | -251 | 146 | -120 | 323 | 13521 | 9.24 | 3.08 | 9.24 | 3.08 | -56.48 | 2383.3 | 0.13 |
| 5 | 98 | 36 | -276 | 144 | -120 | 318 | 13062 | 9.24 | 3.08 | 9.24 | 3.08 | -54.57 | 2302.4 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 130 | 74 | -748 | 153 | -120 | 289 | 14753 | 9.24 | 3.08 | 9.24 | 3.08 | -61.63 | 2600.4 | 0.14 |
| 4 | 130 | 45 | -780 | 146 | -120 | 275 | 13354 | 9.24 | 3.08 | 9.24 | 3.08 | -55.78 | 2353.8 | 0.13 |
| 5 | 130 | 36 | -789 | 144 | -120 | 271 | 12889 | 9.24 | 3.08 | 9.24 | 3.08 | -53.84 | 2271.8 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 74 | -1327 | 153 | -120 | 239 | 14415 | 9.24 | 3.08 | 9.24 | 3.08 | -60.22 | 2540.9 | 0.14 |
| 4 | 163 | 45 | -1309 | 146 | -120 | 227 | 13014 | 9.24 | 3.08 | 9.24 | 3.08 | -54.36 | 2293.9 | 0.12 |
| 5 | 163 | 36 | -1302 | 144 | -120 | 224 | 12548 | 9.24 | 3.08 | 9.24 | 3.08 | -52.42 | 2211.9 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 195 | 74 | -1905 | 153 | -120 | 190 | 13889 | 9.24 | 3.08 | 9.24 | 3.08 | -58.02 | 2448.2 | 0.13 |
| 4 | 195 | 45 | -1838 | 146 | -120 | 180 | 12502 | 9.24 | 3.08 | 9.24 | 3.08 | -52.22 | 2203.6 | 0.11 |
| 5 | 195 | 36 | -1814 | 144 | -120 | 177 | 12041 | 9.24 | 3.08 | 9.24 | 3.08 | -50.30 | 2122.4 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | 74 | -2483 | 153 | -120 | 140 | 13175 | 9.24 | 3.08 | 9.24 | 3.08 | -55.04 | 2322.3 | 0.12 |
| 4 | 228 | 45 | -2367 | 146 | -120 | 132 | 11817 | 9.24 | 3.08 | 9.24 | 3.08 | -49.37 | 2083.0 | 0.11 |
| 5 | 228 | 36 | -2327 | 144 | -120 | 130 | 11367 | 9.24 | 3.08 | 9.24 | 3.08 | -47.48 | 2003.6 | 0.10 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 260 | 74 | -3061 | 153 | -120 | 90 | 12273 | 9.24 | 3.08 | 9.24 | 3.08 | -51.27 | 2163.2 | 0.11 |
| 4 | 260 | 45 | -2897 | 146 | -120 | 85 | 10961 | 9.24 | 3.08 | 9.24 | 3.08 | -45.79 | 1932.0 | 0.09 |

```
 5   260      36   -2840     144     -120      83   10526     9.24   3.08   9.24   3.08    -43.97    1855.3    0.09

apost= 6.16 aant= --      ainf= 6.16 asup= --       ( e armatura base = 4 X 1.54 )

 3   293      74   -3640     153     -120      40   11182     9.24   3.08   9.24   3.08    -46.71    1971.0    0.10
 4   293      45   -3426     146     -120      37    9931     9.24   3.08   9.24   3.08    -41.49    1750.6    0.08
 5   293      36   -3353     144     -120      36    9517     9.24   3.08   9.24   3.08    -39.76    1677.6    0.07

apost= 6.16 aant= --      ainf= 6.16 asup= --       ( e armatura base = 4 X 1.54 )

 3   326      74   -4218     153     -120     -10    9903     9.24   4.62   9.24   4.62    -40.04    1739.0    0.08
 4   326      45   -3955     146     -120     -10    8730     9.24   4.62   9.24   4.62    -35.29    1533.0    0.06
 5   326      36   -3866     144     -120     -11    8342     9.24   4.62   9.24   4.62    -33.73    1464.9    0.06

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

ASTA NUM. 57     NI 15506    NF 15524    SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000   5.7400     5.0184  17.7584  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
       --    ---------------------    ------------------    ----------------------      --------------    --
      cm             kg                      kg*m                      cm²                    kg/cm²        mm
-------------------------------------------------------------------------------------------------------------------

 3    0     132   -7357      89    -2168      97    9733     9.24   4.62   9.24   4.62    -39.35    1709.1    0.08
 4    0     103   -6764      91    -1990      96    8564     9.24   4.62   9.24   4.62    -34.62    1503.8    0.06
 5    0      94   -6564      92    -1930      96    8178     9.24   4.62   9.24   4.62    -19.57     165.1    0.00

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   33     132   -7939      89    -2168      68    7225     9.24   4.62   9.24   4.62    -17.29     145.9    0.00
 4   33     103   -7297      91    -1990      67    6259     9.24   4.62   9.24   4.62    -14.98     126.4    0.00
 5   33      94   -7081      92    -1930      66    5940     9.24   4.62   9.24   4.62    -14.21     120.0    0.00

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   66     132   -8522      89    -2168      39    4526     9.24   4.62   9.24   4.62    -10.83      91.4    0.00
 4   66     103   -7829      91    -1990      37    3779     9.24   4.62   9.24   4.62     -9.04      76.3    0.00
 5   66      94   -7597      92    -1930      36    3533     9.24   4.62   9.24   4.62     -8.45      71.3    0.00

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   98     132   -9104      89    -2168      10    1636     9.24   4.62   9.24   4.62     -3.91      33.0    0.00
 4   98     103   -8362      91    -1990       7    1125     9.24   4.62   9.24   4.62     -2.69      22.7    0.00
 5   98      94   -8114      92    -1930       6     957     9.24   4.62   9.24   4.62     -2.29      19.3    0.00

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

 3  131     132   -9686      89    -2168     -20   -1445     4.62   9.24   4.62   9.24     -3.46      29.2    0.00
 4  131     103   -8894      91    -1990     -23   -1704     4.62   9.24   4.62   9.24     -4.08      34.4    0.00
 5  131      94   -8630      92    -1930     -24   -1789     4.62   9.24   4.62   9.24     -4.28      36.1    0.00

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3  164     132  -10269      89    -2168     -49   -4717     4.62   9.24   4.62   9.24    -11.29      95.2    0.00
 4  164     103   -9427      91    -1990     -53   -4709     4.62   9.24   4.62   9.24    -11.27      95.1    0.00
 5  164      94   -9147      92    -1930     -54   -4704     4.62   9.24   4.62   9.24    -11.25      95.0    0.00

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3  197     132  -10851      89    -2168     -78   -8179     4.62   9.24   4.62   9.24    -19.57     165.2    0.00
 4  197     103   -9960      91    -1990     -82   -7887     4.62   9.24   4.62   9.24    -18.87     159.3    0.00
 5  197      94   -9664      92    -1930     -84   -7788     4.62   9.24   4.62   9.24    -18.64     157.3    0.00

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3  230     132  -11433      89    -2168    -107  -11833     4.62   9.24   4.62   9.24    -47.84    2077.9    0.10
 4  230     103  -10492      91    -1990    -112  -11241     4.62   9.24   4.62   9.24    -45.45    1973.9    0.10
 5  230      94  -10180      92    -1930    -114  -11042     4.62   9.24   4.62   9.24    -44.64    1939.0    0.09

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3  262     132  -12015      89    -2168    -136  -15678     4.62   9.24   4.62   9.24    -63.38    2753.0    0.15
 4  262     103  -11025      91    -1990    -142  -14769     4.62   9.24   4.62   9.24    -59.71    2593.4    0.14
 5  262      94  -10697      92    -1930    -144  -14465     4.62   9.24   4.62   9.24    -58.48    2540.1    0.14

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3  295     132  -12598      89    -2168    -166  -19713     4.62   9.24   6.16  10.78    -73.15    2974.1    0.16
 4  295     103  -11557      91    -1990    -172  -18472     4.62   9.24   6.16  10.78    -68.54    2786.9    0.15
 5  295      94  -11213      92    -1930    -174  -18058     4.62   9.24   6.16  10.78    -67.00    2724.4    0.15

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

 3  328     132  -13180      89    -2168    -195  -21963     4.62   9.24   6.16  12.32    -77.84    2914.8    0.15
 4  328     103  -12090      91    -1990    -201  -20536     4.62   9.24   6.16  12.32    -72.78    2725.5    0.14
 5  328      94  -11730      92    -1930    -204  -20061     4.62   9.24   6.16  12.32    -71.10    2662.3    0.14

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24  ( e armatura base = 4 X 1.54 )
```

**ASTA NUM. 62** NI 15084 NF 15528 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.5700 5.4468 24.0168 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 1366 | 17740 | -256 | 492 | -423 | -25910 | 3.08 | 9.24 | 7.70 | 15.39 | -82.85 | 2766.9 | 0.13 |
| 4 | 0 | 1165 | 16230 | -236 | 461 | -386 | -23250 | 3.08 | 9.24 | 7.70 | 15.39 | -74.34 | 2482.8 | 0.12 |
| 5 | 0 | 1099 | 15720 | -230 | 451 | -373 | -22360 | 3.08 | 9.24 | 7.70 | 15.39 | -71.50 | 2387.8 | 0.11 |
| apost= -- aant= 6.16 ainf= 4.62 asup= 12.32 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 35 | 1366 | 16892 | -256 | 492 | -333 | -19798 | 3.08 | 9.24 | 6.16 | 12.32 | -70.17 | 2627.5 | 0.13 |
| 4 | 35 | 1165 | 15439 | -236 | 461 | -302 | -17660 | 3.08 | 9.24 | 6.16 | 12.32 | -62.59 | 2343.8 | 0.12 |
| 5 | 35 | 1099 | 14949 | -230 | 451 | -292 | -16945 | 3.08 | 9.24 | 6.16 | 12.32 | -60.06 | 2248.8 | 0.11 |
| apost= -- aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 71 | 1366 | 16043 | -256 | 492 | -242 | -13985 | 3.08 | 9.24 | 4.62 | 9.24 | -56.54 | 2455.7 | 0.13 |
| 4 | 71 | 1165 | 14648 | -236 | 461 | -219 | -12350 | 3.08 | 9.24 | 4.62 | 9.24 | -49.93 | 2168.6 | 0.11 |
| 5 | 71 | 1099 | 14179 | -230 | 451 | -211 | -11802 | 3.08 | 9.24 | 4.62 | 9.24 | -47.71 | 2072.4 | 0.10 |
| apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 106 | 1366 | 15195 | -256 | 492 | -152 | -8471 | 3.08 | 9.24 | 3.08 | 9.24 | -35.39 | 1493.2 | 0.06 |
| 4 | 106 | 1165 | 13858 | -236 | 461 | -136 | -7318 | 3.08 | 9.24 | 3.08 | 9.24 | -17.73 | 148.5 | 0.00 |
| 5 | 106 | 1099 | 13408 | -230 | 451 | -130 | -6931 | 3.08 | 9.24 | 3.08 | 9.24 | -16.79 | 140.7 | 0.00 |
| apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 141 | 1366 | 14347 | -256 | 492 | -62 | -3257 | 3.08 | 9.24 | 3.08 | 9.24 | -7.89 | 66.1 | 0.00 |
| 4 | 141 | 1165 | 13067 | -236 | 461 | -52 | -2566 | 3.08 | 9.24 | 3.08 | 9.24 | -6.21 | 52.1 | 0.00 |
| 5 | 141 | 1099 | 12637 | -230 | 451 | -49 | -2333 | 3.08 | 9.24 | 3.08 | 9.24 | -5.65 | 47.3 | 0.00 |
| apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 177 | 1366 | 13499 | -256 | 492 | 29 | 1658 | 9.24 | 3.08 | 9.24 | 3.08 | -4.02 | 33.6 | 0.00 |
| 4 | 177 | 1165 | 12276 | -236 | 461 | 31 | 1908 | 9.24 | 3.08 | 9.24 | 3.08 | -4.62 | 38.7 | 0.00 |
| 5 | 177 | 1099 | 11866 | -230 | 451 | 32 | 1993 | 9.24 | 3.08 | 9.24 | 3.08 | -4.83 | 40.4 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 212 | 1366 | 12650 | -256 | 492 | 119 | 6273 | 9.24 | 3.08 | 9.24 | 3.08 | -15.20 | 127.3 | 0.00 |
| 4 | 212 | 1165 | 11485 | -236 | 461 | 115 | 6102 | 9.24 | 3.08 | 9.24 | 3.08 | -14.78 | 123.8 | 0.00 |
| 5 | 212 | 1099 | 11096 | -230 | 451 | 114 | 6047 | 9.24 | 3.08 | 9.24 | 3.08 | -14.65 | 122.7 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 247 | 1366 | 11802 | -256 | 492 | 210 | 10589 | 9.24 | 3.08 | 9.24 | 3.08 | -44.23 | 1866.4 | 0.09 |
| 4 | 247 | 1165 | 10694 | -236 | 461 | 198 | 10018 | 9.24 | 3.08 | 9.24 | 3.08 | -41.85 | 1765.8 | 0.08 |
| 5 | 247 | 1099 | 10325 | -230 | 451 | 195 | 9829 | 9.24 | 3.08 | 9.24 | 3.08 | -41.06 | 1732.4 | 0.08 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 282 | 1366 | 10954 | -256 | 492 | 300 | 14605 | 9.24 | 3.08 | 9.24 | 3.08 | -61.01 | 2574.4 | 0.14 |
| 4 | 282 | 1165 | 9904 | -236 | 461 | 282 | 13654 | 9.24 | 3.08 | 9.24 | 3.08 | -57.04 | 2406.8 | 0.13 |
| 5 | 282 | 1099 | 9554 | -230 | 451 | 276 | 13338 | 9.24 | 3.08 | 9.24 | 3.08 | -55.72 | 2351.0 | 0.12 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 318 | 1366 | 10105 | -256 | 492 | 391 | 18322 | 9.24 | 3.08 | 10.78 | 3.08 | -72.39 | 2785.6 | 0.15 |
| 4 | 318 | 1165 | 9113 | -236 | 461 | 365 | 17012 | 9.24 | 3.08 | 10.78 | 3.08 | -67.21 | 2586.3 | 0.14 |
| 5 | 318 | 1099 | 8784 | -230 | 451 | 357 | 16575 | 9.24 | 3.08 | 10.78 | 3.08 | -65.49 | 2519.9 | 0.13 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 353 | 1366 | 9257 | -256 | 492 | 481 | 21740 | 9.24 | 3.08 | 12.32 | 3.08 | -81.93 | 2908.6 | 0.15 |
| 4 | 353 | 1165 | 8322 | -236 | 461 | 449 | 20090 | 9.24 | 3.08 | 12.32 | 3.08 | -75.71 | 2687.9 | 0.14 |
| 5 | 353 | 1099 | 8013 | -230 | 451 | 438 | 19540 | 9.24 | 3.08 | 12.32 | 3.08 | -73.64 | 2614.3 | 0.13 |
| apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 61** NI 15528 NF 15527 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 1329 | 2356 | 21 | -134 | 168 | 21460 | 9.24 | 3.08 | 12.32 | 3.08 | -80.87 | 2871.2 | 0.15 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0 | 1140 | 2099 | 30 | -133 | 176 | 19830 | 9.24 | 3.08 | 12.32 | 3.08 | -74.73 | 2653.1 | 0.14 |
| 5 | 0 | 1077 | 2015 | 33 | -132 | 179 | 19290 | 9.24 | 3.08 | 12.32 | 3.08 | -72.69 | 2580.8 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 1329 | 1618 | 21 | -134 | 161 | 22106 | 9.24 | 3.08 | 12.32 | 3.08 | -83.31 | 2957.6 | 0.15 |
| 4 | 33 | 1140 | 1410 | 30 | -133 | 166 | 20401 | 9.24 | 3.08 | 12.32 | 3.08 | -76.88 | 2729.5 | 0.14 |
| 5 | 33 | 1077 | 1342 | 33 | -132 | 168 | 19836 | 9.24 | 3.08 | 12.32 | 3.08 | -74.75 | 2653.9 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 1329 | 879 | 21 | -134 | 154 | 22512 | 9.24 | 3.08 | 13.85 | 3.08 | -81.44 | 2691.5 | 0.13 |
| 4 | 65 | 1140 | 720 | 30 | -133 | 156 | 20748 | 9.24 | 3.08 | 13.85 | 3.08 | -75.06 | 2480.6 | 0.12 |
| 5 | 65 | 1077 | 669 | 33 | -132 | 157 | 20163 | 9.24 | 3.08 | 13.85 | 3.08 | -72.94 | 2410.7 | 0.12 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 1329 | 141 | 21 | -134 | 147 | 22677 | 9.24 | 3.08 | 13.85 | 3.08 | -82.03 | 2711.2 | 0.13 |
| 4 | 98 | 1140 | 31 | 30 | -133 | 146 | 20870 | 9.24 | 3.08 | 13.85 | 3.08 | -75.50 | 2495.2 | 0.12 |
| 5 | 98 | 1077 | -4 | 33 | -132 | 147 | 20271 | 9.24 | 3.08 | 13.85 | 3.08 | -73.33 | 2423.6 | 0.12 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 130 | 1329 | -598 | 21 | -134 | 140 | 22601 | 9.24 | 3.08 | 13.85 | 3.08 | -81.76 | 2702.2 | 0.13 |
| 4 | 130 | 1140 | -659 | 30 | -133 | 137 | 20768 | 9.24 | 3.08 | 13.85 | 3.08 | -75.13 | 2483.0 | 0.12 |
| 5 | 130 | 1077 | -677 | 33 | -132 | 136 | 20160 | 9.24 | 3.08 | 13.85 | 3.08 | -72.93 | 2410.3 | 0.12 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 1329 | -1336 | 21 | -134 | 133 | 22286 | 9.24 | 3.08 | 12.32 | 3.08 | -83.98 | 2981.6 | 0.16 |
| 4 | 163 | 1140 | -1348 | 30 | -133 | 127 | 20441 | 9.24 | 3.08 | 12.32 | 3.08 | -77.03 | 2734.8 | 0.14 |
| 5 | 163 | 1077 | -1350 | 33 | -132 | 125 | 19829 | 9.24 | 3.08 | 12.32 | 3.08 | -74.73 | 2653.0 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 195 | 1329 | -2075 | 21 | -134 | 126 | 21729 | 9.24 | 3.08 | 12.32 | 3.08 | -81.89 | 2907.2 | 0.15 |
| 4 | 195 | 1140 | -2037 | 30 | -133 | 117 | 19890 | 9.24 | 3.08 | 12.32 | 3.08 | -74.95 | 2661.1 | 0.14 |
| 5 | 195 | 1077 | -2023 | 33 | -132 | 114 | 19280 | 9.24 | 3.08 | 12.32 | 3.08 | -72.66 | 2579.5 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | 1329 | -2814 | 21 | -134 | 119 | 20933 | 9.24 | 3.08 | 12.32 | 3.08 | -78.88 | 2800.6 | 0.14 |
| 4 | 228 | 1140 | -2727 | 30 | -133 | 108 | 19114 | 9.24 | 3.08 | 12.32 | 3.08 | -72.03 | 2557.3 | 0.13 |
| 5 | 228 | 1077 | -2696 | 33 | -132 | 104 | 18511 | 9.24 | 3.08 | 12.32 | 3.08 | -69.76 | 2476.6 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 260 | 1329 | -3552 | 21 | -134 | 113 | 19896 | 9.24 | 3.08 | 12.32 | 3.08 | -74.98 | 2661.9 | 0.14 |
| 4 | 260 | 1140 | -3416 | 30 | -133 | 98 | 18114 | 9.24 | 3.08 | 12.32 | 3.08 | -68.26 | 2423.5 | 0.12 |
| 5 | 260 | 1077 | -3369 | 33 | -132 | 93 | 17523 | 9.24 | 3.08 | 12.32 | 3.08 | -66.04 | 2344.5 | 0.12 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 293 | 1329 | -4291 | 21 | -134 | 106 | 18618 | 9.24 | 3.08 | 10.78 | 3.08 | -73.56 | 2830.5 | 0.15 |
| 4 | 293 | 1140 | -4106 | 30 | -133 | 88 | 16889 | 9.24 | 3.08 | 10.78 | 3.08 | -66.73 | 2567.7 | 0.14 |
| 5 | 293 | 1077 | -4042 | 33 | -132 | 82 | 16316 | 9.24 | 3.08 | 10.78 | 3.08 | -64.46 | 2480.6 | 0.13 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | 1329 | -5029 | 21 | -134 | 99 | 17100 | 9.24 | 4.62 | 10.78 | 4.62 | -65.44 | 2589.3 | 0.14 |
| 4 | 326 | 1140 | -4795 | 30 | -133 | 79 | 15440 | 9.24 | 4.62 | 10.78 | 4.62 | -59.09 | 2337.9 | 0.12 |
| 5 | 326 | 1077 | -4715 | 33 | -132 | 71 | 14890 | 9.24 | 4.62 | 10.78 | 4.62 | -56.98 | 2254.6 | 0.11 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 60** NI 15527 NF 15523 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 1240 | -11090 | 119 | -1530 | 146 | 17100 | 9.24 | 4.62 | 10.78 | 4.62 | -65.44 | 2589.3 | 0.14 |
| 4 | 0 | 1064 | -10270 | 122 | -1439 | 149 | 15450 | 9.24 | 4.62 | 10.78 | 4.62 | -59.13 | 2339.4 | 0.12 |
| 5 | 0 | 1006 | -9996 | 123 | -1409 | 150 | 14900 | 9.24 | 4.62 | 10.78 | 4.62 | -57.02 | 2256.2 | 0.12 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 1240 | -11834 | 119 | -1530 | 107 | 13340 | 9.24 | 4.62 | 9.24 | 4.62 | -53.93 | 2342.6 | 0.12 |
| 4 | 33 | 1064 | -10964 | 122 | -1439 | 109 | 11967 | 9.24 | 4.62 | 9.24 | 4.62 | -48.38 | 2101.5 | 0.11 |
| 5 | 33 | 1006 | -10673 | 123 | -1409 | 110 | 11511 | 9.24 | 4.62 | 9.24 | 4.62 | -46.54 | 2021.4 | 0.10 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | 1240 | -12578 | 119 | -1530 | 68 | 9337 | 9.24 | 4.62 | 9.24 | 4.62 | -37.75 | 1639.5 | 0.07 |
| 4 | 66 | 1064 | -11658 | 122 | -1439 | 69 | 8257 | 9.24 | 4.62 | 9.24 | 4.62 | -19.76 | 166.7 | 0.00 |
| 5 | 66 | 1006 | -11351 | 123 | -1409 | 70 | 7900 | 9.24 | 4.62 | 9.24 | 4.62 | -18.90 | 159.5 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 1240 | -13322 | 119 | -1530 | 29 | 5089 | 9.24 | 4.62 | 9.24 | 4.62 | -12.18 | 102.8 | 0.00 |
| 4 | 98 | 1064 | -12352 | 122 | -1439 | 29 | 4319 | 9.24 | 4.62 | 9.24 | 4.62 | -10.33 | 87.2 | 0.00 |
| 5 | 98 | 1006 | -12028 | 123 | -1409 | 30 | 4067 | 9.24 | 4.62 | 9.24 | 4.62 | -9.73 | 82.1 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 1240 | -14066 | 119 | -1530 | -10 | 598 | 4.62 | 9.24 | 9.24 | 9.24 | -1.38 | 11.9 | 0.00 |
| 4 | 131 | 1064 | -13046 | 122 | -1439 | -10 | 154 | 4.62 | 9.24 | 9.24 | 9.24 | -0.36 | 3.1 | 0.00 |
| 5 | 131 | 1006 | -12706 | 123 | -1409 | -10 | 11 | 4.62 | 9.24 | 9.24 | 9.24 | -0.03 | 0.2 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 164 | 1240 | -14810 | 119 | -1530 | -49 | -4137 | 4.62 | 9.24 | 4.62 | 9.24 | -9.90 | 83.5 | 0.00 |
| 4 | 164 | 1064 | -13740 | 122 | -1439 | -50 | -4239 | 4.62 | 9.24 | 4.62 | 9.24 | -10.14 | 85.6 | 0.00 |
| 5 | 164 | 1006 | -13383 | 123 | -1409 | -51 | -4267 | 4.62 | 9.24 | 4.62 | 9.24 | -10.21 | 86.2 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 197 | 1240 | -15554 | 119 | -1530 | -88 | -9116 | 4.62 | 9.24 | 4.62 | 9.24 | -36.85 | 1600.7 | 0.07 |
| 4 | 197 | 1064 | -14434 | 122 | -1439 | -90 | -8860 | 4.62 | 9.24 | 4.62 | 9.24 | -35.82 | 1555.8 | 0.06 |
| 5 | 197 | 1006 | -14060 | 123 | -1409 | -91 | -8767 | 4.62 | 9.24 | 4.62 | 9.24 | -35.44 | 1539.4 | 0.06 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 230 | 1240 | -16298 | 119 | -1530 | -128 | -14339 | 4.62 | 9.24 | 4.62 | 9.24 | -57.97 | 2517.8 | 0.14 |
| 4 | 230 | 1064 | -15128 | 122 | -1439 | -130 | -13709 | 4.62 | 9.24 | 4.62 | 9.24 | -55.42 | 2407.2 | 0.13 |
| 5 | 230 | 1006 | -14738 | 123 | -1409 | -131 | -13489 | 4.62 | 9.24 | 4.62 | 9.24 | -54.54 | 2368.7 | 0.13 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 262 | 1240 | -17042 | 119 | -1530 | -167 | -19805 | 4.62 | 9.24 | 6.16 | 10.78 | -73.49 | 2988.0 | 0.16 |
| 4 | 262 | 1064 | -15822 | 122 | -1439 | -170 | -18785 | 4.62 | 9.24 | 6.16 | 10.78 | -69.70 | 2834.0 | 0.15 |
| 5 | 262 | 1006 | -15415 | 123 | -1409 | -171 | -18434 | 4.62 | 9.24 | 6.16 | 10.78 | -68.40 | 2781.1 | 0.15 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 1240 | -17786 | 119 | -1530 | -206 | -25516 | 4.62 | 9.24 | 7.70 | 15.39 | -81.59 | 2724.8 | 0.13 |
| 4 | 295 | 1064 | -16516 | 122 | -1439 | -210 | -24089 | 4.62 | 9.24 | 7.70 | 15.39 | -77.03 | 2572.4 | 0.12 |
| 5 | 295 | 1006 | -16093 | 123 | -1409 | -211 | -23601 | 4.62 | 9.24 | 7.70 | 15.39 | -75.47 | 2520.3 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 4.62 asup= 12.32 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 328 | 1240 | -18530 | 119 | -1530 | -245 | -28691 | 4.62 | 9.24 | 9.24 | 16.93 | -86.59 | 2786.9 | 0.13 |
| 4 | 328 | 1064 | -17210 | 122 | -1439 | -250 | -27039 | 4.62 | 9.24 | 9.24 | 16.93 | -81.60 | 2626.5 | 0.12 |
| 5 | 328 | 1006 | -16770 | 123 | -1409 | -252 | -26474 | 4.62 | 9.24 | 9.24 | 16.93 | -79.90 | 2571.7 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 65** NI 15083 NF 15508 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.5700 5.4468 24.0168 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 737 | 17870 | -99 | 276 | -97 | -22540 | 3.08 | 9.24 | 6.16 | 12.32 | -79.89 | 2991.4 | 0.16 |
| 4 | 0 | 610 | 16470 | -86 | 259 | -74 | -20370 | 3.08 | 9.24 | 6.16 | 12.32 | -72.19 | 2703.4 | 0.14 |
| 5 | 0 | 567 | 16000 | -82 | 253 | -66 | -19650 | 3.08 | 9.24 | 6.16 | 12.32 | -69.64 | 2607.9 | 0.13 |

apost= -- aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | 737 | 17022 | -99 | 276 | -61 | -16379 | 3.08 | 9.24 | 4.62 | 9.24 | -66.22 | 2876.1 | 0.16 |
| 4 | 35 | 610 | 15679 | -86 | 259 | -43 | -14695 | 3.08 | 9.24 | 4.62 | 9.24 | -59.41 | 2580.5 | 0.14 |
| 5 | 35 | 567 | 15229 | -82 | 253 | -37 | -14137 | 3.08 | 9.24 | 4.62 | 9.24 | -57.15 | 2482.4 | 0.13 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 737 | 16175 | -99 | 276 | -26 | -10517 | 3.08 | 9.24 | 4.62 | 9.24 | -42.52 | 1846.7 | 0.09 |
| 4 | 71 | 610 | 14889 | -86 | 259 | -13 | -9300 | 3.08 | 9.24 | 4.62 | 9.24 | -37.60 | 1633.0 | 0.07 |
| 5 | 71 | 567 | 14458 | -82 | 253 | -8 | -8896 | 3.08 | 9.24 | 4.62 | 9.24 | -35.97 | 1562.1 | 0.06 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 106 | 737 | 15327 | -99 | 276 | 9 | -4954 | 3.08 | 9.24 | 3.08 | 9.24 | -12.00 | 100.5 | 0.00 |
| 4 | 106 | 610 | 14099 | -86 | 259 | 18 | -4183 | 3.08 | 9.24 | 3.08 | 9.24 | -10.13 | 84.9 | 0.00 |
| 5 | 106 | 567 | 13687 | -82 | 253 | 20 | -3927 | 3.08 | 9.24 | 3.08 | 9.24 | -9.51 | 79.7 | 0.00 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 141 | 737 | 14480 | -99 | 276 | 44 | 309 | 9.24 | 3.08 | 9.24 | 3.08 | -0.75 | 6.3 | 0.00 |
| 4 | 141 | 610 | 13308 | -86 | 259 | 48 | 654 | 9.24 | 3.08 | 9.24 | 3.08 | -1.59 | 13.3 | 0.00 |
| 5 | 141 | 567 | 12916 | -82 | 253 | 49 | 769 | 9.24 | 3.08 | 9.24 | 3.08 | -1.86 | 15.6 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 177 | 737 | 13632 | -99 | 276 | 79 | 5273 | 9.24 | 3.08 | 9.24 | 3.08 | -12.77 | 107.0 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 177 | 610 | 12518 | -86 | 259 | 78 | 5213 | 9.24 | 3.08 | 9.24 | 3.08 | -12.63 | 105.8 | 0.00 |
| 5 | 177 | 567 | 12144 | -82 | 253 | 78 | 5193 | 9.24 | 3.08 | 9.24 | 3.08 | -12.58 | 105.4 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 212 | 737 | 12784 | -99 | 276 | 114 | 9937 | 9.24 | 3.08 | 9.24 | 3.08 | -41.51 | 1751.5 | 0.08 |
| 4 | 212 | 610 | 11727 | -86 | 259 | 109 | 9492 | 9.24 | 3.08 | 9.24 | 3.08 | -39.65 | 1673.2 | 0.07 |
| 5 | 212 | 567 | 11373 | -82 | 253 | 107 | 9345 | 9.24 | 3.08 | 9.24 | 3.08 | -39.04 | 1647.2 | 0.07 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 247 | 737 | 11937 | -99 | 276 | 149 | 14302 | 9.24 | 3.08 | 9.24 | 3.08 | -59.74 | 2520.9 | 0.14 |
| 4 | 247 | 610 | 10937 | -86 | 259 | 139 | 13493 | 9.24 | 3.08 | 9.24 | 3.08 | -56.37 | 2378.3 | 0.13 |
| 5 | 247 | 567 | 10602 | -82 | 253 | 136 | 13225 | 9.24 | 3.08 | 9.24 | 3.08 | -55.24 | 2331.0 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 282 | 737 | 11089 | -99 | 276 | 184 | 18367 | 9.24 | 3.08 | 10.78 | 3.08 | -72.57 | 2792.4 | 0.15 |
| 4 | 282 | 610 | 10146 | -86 | 259 | 169 | 17214 | 9.24 | 3.08 | 10.78 | 3.08 | -68.01 | 2617.1 | 0.14 |
| 5 | 282 | 567 | 9831 | -82 | 253 | 164 | 16832 | 9.24 | 3.08 | 10.78 | 3.08 | -66.50 | 2559.0 | 0.13 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 318 | 737 | 10242 | -99 | 276 | 219 | 22133 | 9.24 | 3.08 | 12.32 | 3.08 | -83.41 | 2961.2 | 0.15 |
| 4 | 318 | 610 | 9356 | -86 | 259 | 200 | 20657 | 9.24 | 3.08 | 12.32 | 3.08 | -77.84 | 2763.7 | 0.14 |
| 5 | 318 | 567 | 9060 | -82 | 253 | 193 | 20167 | 9.24 | 3.08 | 12.32 | 3.08 | -76.00 | 2698.2 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 353 | 737 | 9394 | -99 | 276 | 255 | 25600 | 9.24 | 3.08 | 15.39 | 3.08 | -89.35 | 2768.3 | 0.13 |
| 4 | 353 | 610 | 8565 | -86 | 259 | 230 | 23820 | 9.24 | 3.08 | 15.39 | 3.08 | -83.14 | 2575.8 | 0.12 |
| 5 | 353 | 567 | 8289 | -82 | 253 | 222 | 23230 | 9.24 | 3.08 | 15.39 | 3.08 | -81.08 | 2512.0 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 64** NI 15508 NF 15509 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 852 | 1981 | -9 | -39 | 74 | 25650 | 9.24 | 3.08 | 15.39 | 3.08 | -89.52 | 2773.7 | 0.13 |
| 4 | 0 | 712 | 1741 | 3 | -37 | 89 | 23860 | 9.24 | 3.08 | 15.39 | 3.08 | -83.28 | 2580.2 | 0.12 |
| 5 | 0 | 665 | 1662 | 7 | -37 | 94 | 23260 | 9.24 | 3.08 | 15.39 | 3.08 | -81.18 | 2515.3 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 852 | 1243 | -9 | -39 | 77 | 26174 | 9.24 | 3.08 | 15.39 | 3.08 | -91.35 | 2830.4 | 0.14 |
| 4 | 33 | 712 | 1052 | 3 | -37 | 88 | 24314 | 9.24 | 3.08 | 15.39 | 3.08 | -84.86 | 2629.3 | 0.13 |
| 5 | 33 | 665 | 989 | 7 | -37 | 92 | 23692 | 9.24 | 3.08 | 15.39 | 3.08 | -82.69 | 2562.0 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 852 | 504 | -9 | -39 | 80 | 26458 | 9.24 | 3.08 | 15.39 | 3.08 | -92.34 | 2861.1 | 0.14 |
| 4 | 65 | 712 | 362 | 3 | -37 | 87 | 24544 | 9.24 | 3.08 | 15.39 | 3.08 | -85.66 | 2654.1 | 0.13 |
| 5 | 65 | 665 | 316 | 7 | -37 | 90 | 23905 | 9.24 | 3.08 | 15.39 | 3.08 | -83.43 | 2585.1 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 852 | -234 | -9 | -39 | 83 | 26501 | 9.24 | 3.08 | 15.39 | 3.08 | -92.49 | 2865.7 | 0.14 |
| 4 | 98 | 712 | -327 | 3 | -37 | 86 | 24549 | 9.24 | 3.08 | 15.39 | 3.08 | -85.68 | 2654.7 | 0.13 |
| 5 | 98 | 665 | -357 | 7 | -37 | 87 | 23899 | 9.24 | 3.08 | 15.39 | 3.08 | -83.41 | 2584.4 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 130 | 852 | -973 | -9 | -39 | 86 | 26303 | 9.24 | 3.08 | 15.39 | 3.08 | -91.80 | 2844.4 | 0.14 |
| 4 | 130 | 712 | -1017 | 3 | -37 | 85 | 24330 | 9.24 | 3.08 | 15.39 | 3.08 | -84.91 | 2631.0 | 0.13 |
| 5 | 130 | 665 | -1030 | 7 | -37 | 85 | 23674 | 9.24 | 3.08 | 15.39 | 3.08 | -82.63 | 2560.0 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 852 | -1711 | -9 | -39 | 89 | 25866 | 9.24 | 3.08 | 15.39 | 3.08 | -90.27 | 2797.0 | 0.14 |
| 4 | 163 | 712 | -1706 | 3 | -37 | 84 | 23886 | 9.24 | 3.08 | 15.39 | 3.08 | -83.37 | 2583.0 | 0.12 |
| 5 | 163 | 665 | -1703 | 7 | -37 | 83 | 23229 | 9.24 | 3.08 | 15.39 | 3.08 | -81.07 | 2512.0 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 195 | 852 | -2449 | -9 | -39 | 92 | 25187 | 9.24 | 3.08 | 13.85 | 3.08 | -91.12 | 3011.4 | 0.15 |
| 4 | 195 | 712 | -2395 | 3 | -37 | 83 | 23218 | 9.24 | 3.08 | 13.85 | 3.08 | -83.99 | 2775.9 | 0.14 |
| 5 | 195 | 665 | -2376 | 7 | -37 | 81 | 22566 | 9.24 | 3.08 | 13.85 | 3.08 | -81.63 | 2698.0 | 0.13 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | 852 | -3188 | -9 | -39 | 95 | 24269 | 9.24 | 3.08 | 13.85 | 3.08 | -87.79 | 2901.5 | 0.15 |
| 4 | 228 | 712 | -3085 | 3 | -37 | 83 | 22325 | 9.24 | 3.08 | 13.85 | 3.08 | -80.76 | 2669.2 | 0.13 |
| 5 | 228 | 665 | -3049 | 7 | -37 | 78 | 21683 | 9.24 | 3.08 | 13.85 | 3.08 | -78.44 | 2592.4 | 0.13 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 260 | 852 | -3926 | -9 | -39 | 98 | 23110 | 9.24 | 3.08 | 13.85 | 3.08 | -83.60 | 2763.0 | 0.14 |
| 4 | 260 | 712 | -3774 | 3 | -37 | 82 | 21208 | 9.24 | 3.08 | 13.85 | 3.08 | -76.72 | 2535.6 | 0.13 |
| 5 | 260 | 665 | -3722 | 7 | -37 | 76 | 20581 | 9.24 | 3.08 | 13.85 | 3.08 | -74.45 | 2460.7 | 0.12 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 293 | 852 | -4665 | -9 | -39 | 101 | 21710 | 9.24 | 3.08 | 12.32 | 3.08 | -81.81 | 2904.6 | 0.15 |
| 4 | 293 | 712 | -4464 | 3 | -37 | 81 | 19866 | 9.24 | 3.08 | 12.32 | 3.08 | -74.87 | 2657.9 | 0.14 |
| 5 | 293 | 665 | -4395 | 7 | -37 | 74 | 19260 | 9.24 | 3.08 | 12.32 | 3.08 | -72.58 | 2576.9 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | 852 | -5403 | -9 | -39 | 104 | 20070 | 9.24 | 4.62 | 12.32 | 3.08 | -75.63 | 2685.2 | 0.14 |
| 4 | 326 | 712 | -5153 | 3 | -37 | 80 | 18300 | 9.24 | 4.62 | 12.32 | 3.08 | -68.96 | 2448.4 | 0.12 |
| 5 | 326 | 665 | -5068 | 7 | -37 | 72 | 17720 | 9.24 | 4.62 | 12.32 | 3.08 | -66.78 | 2370.8 | 0.12 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 63** NI 15509 NF 15522 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 10.6600 5.0184 22.6784 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 941 | -13440 | 118 | -735 | 156 | 20280 | 9.24 | 4.62 | 12.32 | 3.08 | -76.42 | 2713.3 | 0.14 |
| 4 | 0 | 790 | -12530 | 121 | -687 | 160 | 18500 | 9.24 | 4.62 | 12.32 | 3.08 | -69.72 | 2475.1 | 0.13 |
| 5 | 0 | 740 | -12220 | 123 | -670 | 162 | 17900 | 9.24 | 4.62 | 12.32 | 3.08 | -67.46 | 2394.9 | 0.12 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 941 | -14183 | 118 | -735 | 117 | 15752 | 9.24 | 4.62 | 9.24 | 3.08 | -65.80 | 2776.6 | 0.16 |
| 4 | 33 | 790 | -13224 | 121 | -687 | 120 | 14277 | 9.24 | 4.62 | 9.24 | 3.08 | -59.64 | 2516.6 | 0.14 |
| 5 | 33 | 740 | -12898 | 123 | -670 | 121 | 13781 | 9.24 | 4.62 | 9.24 | 3.08 | -57.57 | 2429.1 | 0.13 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | 941 | -14926 | 118 | -735 | 78 | 10981 | 9.24 | 4.62 | 9.24 | 3.08 | -45.87 | 1935.5 | 0.09 |
| 4 | 66 | 790 | -13918 | 121 | -687 | 80 | 9827 | 9.24 | 4.62 | 9.24 | 3.08 | -41.05 | 1732.2 | 0.08 |
| 5 | 66 | 740 | -13576 | 123 | -670 | 81 | 9440 | 9.24 | 4.62 | 9.24 | 3.08 | -39.44 | 1664.0 | 0.07 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 941 | -15669 | 118 | -735 | 40 | 5965 | 9.24 | 4.62 | 9.24 | 3.08 | -14.45 | 121.1 | 0.00 |
| 4 | 98 | 790 | -14612 | 121 | -687 | 41 | 5149 | 9.24 | 4.62 | 9.24 | 3.08 | -12.47 | 104.5 | 0.00 |
| 5 | 98 | 740 | -14254 | 123 | -670 | 41 | 4877 | 9.24 | 4.62 | 9.24 | 3.08 | -11.81 | 99.0 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 941 | -16412 | 118 | -735 | 1 | 706 | 4.62 | 4.62 | 9.24 | 3.08 | -1.71 | 14.3 | 0.00 |
| 4 | 131 | 790 | -15306 | 121 | -687 | 1 | 244 | 4.62 | 4.62 | 9.24 | 3.08 | -0.59 | 5.0 | 0.00 |
| 5 | 131 | 740 | -14932 | 123 | -670 | 1 | 91 | 4.62 | 4.62 | 9.24 | 3.08 | -0.22 | 1.9 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 164 | 941 | -17155 | 118 | -735 | -37 | -4797 | 4.62 | 9.24 | 3.08 | 9.24 | -11.62 | 97.4 | 0.00 |
| 4 | 164 | 790 | -16000 | 121 | -687 | -39 | -4889 | 4.62 | 9.24 | 3.08 | 9.24 | -11.84 | 99.2 | 0.00 |
| 5 | 164 | 740 | -15610 | 123 | -670 | -39 | -4917 | 4.62 | 9.24 | 3.08 | 9.24 | -11.91 | 99.8 | 0.00 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 197 | 941 | -17898 | 118 | -735 | -76 | -10544 | 4.62 | 9.24 | 3.08 | 9.24 | -44.05 | 1858.5 | 0.09 |
| 4 | 197 | 790 | -16694 | 121 | -687 | -79 | -10250 | 4.62 | 9.24 | 3.08 | 9.24 | -42.82 | 1806.7 | 0.08 |
| 5 | 197 | 740 | -16288 | 123 | -670 | -80 | -10147 | 4.62 | 9.24 | 3.08 | 9.24 | -42.39 | 1788.5 | 0.08 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 230 | 941 | -18641 | 118 | -735 | -114 | -16535 | 4.62 | 9.24 | 3.08 | 9.24 | -69.07 | 2914.5 | 0.16 |
| 4 | 230 | 790 | -17388 | 121 | -687 | -118 | -15839 | 4.62 | 9.24 | 3.08 | 9.24 | -66.16 | 2791.8 | 0.16 |
| 5 | 230 | 740 | -16966 | 123 | -670 | -120 | -15599 | 4.62 | 9.24 | 3.08 | 9.24 | -65.16 | 2749.6 | 0.15 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 262 | 941 | -19384 | 118 | -735 | -153 | -22769 | 4.62 | 9.24 | 6.16 | 12.32 | -80.70 | 3021.8 | 0.16 |
| 4 | 262 | 790 | -18082 | 121 | -687 | -158 | -21655 | 4.62 | 9.24 | 6.16 | 12.32 | -76.75 | 2873.9 | 0.15 |
| 5 | 262 | 740 | -17644 | 123 | -670 | -160 | -21274 | 4.62 | 9.24 | 6.16 | 12.32 | -75.40 | 2823.4 | 0.15 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 941 | -20127 | 118 | -735 | -192 | -29248 | 4.62 | 9.24 | 9.24 | 16.93 | -88.27 | 2841.1 | 0.13 |
| 4 | 295 | 790 | -18776 | 121 | -687 | -198 | -27699 | 4.62 | 9.24 | 9.24 | 16.93 | -83.60 | 2690.6 | 0.13 |
| 5 | 295 | 740 | -18322 | 123 | -670 | -200 | -27171 | 4.62 | 9.24 | 9.24 | 16.93 | -82.00 | 2639.3 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 328 | 941 | -20870 | 118 | -735 | -230 | -32840 | 4.62 | 9.24 | 9.24 | 18.47 | -96.46 | 2935.6 | 0.14 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 328 | 790 | -19470 | 121 | -687 | -238 | -31050 | 4.62 | 9.24 | 9.24 | 18.47 | -91.20 | 2775.6 | 0.13 |
| 5 | 328 | 740 | -19000 | 123 | -670 | -240 | -30440 | 4.62 | 9.24 | 9.24 | 18.47 | -89.41 | 2721.1 | 0.13 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 15.39 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 68** NI 15082 NF 15511 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.0595 5.4468 24.5063 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cm$^2$ | | | kg/cm$^2$ | mm |
| 3 | 0 | 1811 | 20710 | -252 | 117 | -506 | -31360 | 3.08 | 9.24 | 9.24 | 18.47 | -92.12 | 2803.3 | 0.13 |
| 4 | 0 | 1531 | 19060 | -229 | 115 | -458 | -28400 | 3.08 | 9.24 | 9.24 | 18.47 | -83.42 | 2538.7 | 0.12 |
| 5 | 0 | 1438 | 18520 | -221 | 114 | -442 | -27420 | 3.08 | 9.24 | 9.24 | 18.47 | -80.54 | 2451.1 | 0.11 |
| apost= -- aant= 6.16 ainf= 6.16 asup= 15.39 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 35 | 1811 | 19844 | -252 | 117 | -417 | -24201 | 3.08 | 9.24 | 7.70 | 13.85 | -80.09 | 2858.7 | 0.14 |
| 4 | 35 | 1531 | 18253 | -229 | 115 | -377 | -21812 | 3.08 | 9.24 | 7.70 | 13.85 | -72.18 | 2576.4 | 0.13 |
| 5 | 35 | 1438 | 17731 | -221 | 114 | -364 | -21021 | 3.08 | 9.24 | 7.70 | 13.85 | -69.57 | 2483.1 | 0.12 |
| apost= -- aant= 6.16 ainf= 4.62 asup= 10.78 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 71 | 1811 | 18978 | -252 | 117 | -328 | -17348 | 3.08 | 9.24 | 6.16 | 10.78 | -64.37 | 2617.2 | 0.14 |
| 4 | 71 | 1531 | 17446 | -229 | 115 | -296 | -15509 | 3.08 | 9.24 | 6.16 | 10.78 | -57.55 | 2339.8 | 0.12 |
| 5 | 71 | 1438 | 16942 | -221 | 114 | -286 | -14901 | 3.08 | 9.24 | 6.16 | 10.78 | -55.29 | 2248.1 | 0.11 |
| apost= -- aant= 6.16 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 106 | 1811 | 18112 | -252 | 117 | -239 | -10800 | 3.08 | 9.24 | 3.08 | 9.24 | -45.12 | 1903.7 | 0.09 |
| 4 | 106 | 1531 | 16639 | -229 | 115 | -216 | -9491 | 3.08 | 9.24 | 3.08 | 9.24 | -39.65 | 1672.9 | 0.07 |
| 5 | 106 | 1438 | 16153 | -221 | 114 | -208 | -9059 | 3.08 | 9.24 | 3.08 | 9.24 | -37.84 | 1596.9 | 0.07 |
| apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 141 | 1811 | 17246 | -252 | 117 | -150 | -4558 | 3.08 | 9.24 | 3.08 | 9.24 | -11.04 | 92.5 | 0.00 |
| 4 | 141 | 1531 | 15832 | -229 | 115 | -135 | -3758 | 3.08 | 9.24 | 3.08 | 9.24 | -9.10 | 76.3 | 0.00 |
| 5 | 141 | 1438 | 15364 | -221 | 114 | -130 | -3496 | 3.08 | 9.24 | 3.08 | 9.24 | -8.47 | 70.9 | 0.00 |
| apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 177 | 1811 | 16380 | -252 | 117 | -61 | 1379 | 3.08 | 9.24 | 9.24 | 3.08 | -3.34 | 28.0 | 0.00 |
| 4 | 177 | 1531 | 15025 | -229 | 115 | -54 | 1689 | 3.08 | 9.24 | 9.24 | 3.08 | -4.09 | 34.3 | 0.00 |
| 5 | 177 | 1438 | 14575 | -221 | 114 | -51 | 1789 | 3.08 | 9.24 | 9.24 | 3.08 | -4.33 | 36.3 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 212 | 1811 | 15514 | -252 | 117 | 27 | 7010 | 9.24 | 3.08 | 9.24 | 3.08 | -16.98 | 142.3 | 0.00 |
| 4 | 212 | 1531 | 14218 | -229 | 115 | 27 | 6852 | 9.24 | 3.08 | 9.24 | 3.08 | -16.60 | 139.1 | 0.00 |
| 5 | 212 | 1438 | 13786 | -221 | 114 | 27 | 6796 | 9.24 | 3.08 | 9.24 | 3.08 | -16.46 | 137.9 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 247 | 1811 | 14648 | -252 | 117 | 116 | 12336 | 9.24 | 3.08 | 9.24 | 3.08 | -51.53 | 2174.4 | 0.11 |
| 4 | 247 | 1531 | 13411 | -229 | 115 | 108 | 11729 | 9.24 | 3.08 | 9.24 | 3.08 | -49.00 | 2067.4 | 0.10 |
| 5 | 247 | 1438 | 12997 | -221 | 114 | 105 | 11525 | 9.24 | 3.08 | 9.24 | 3.08 | -48.14 | 2031.4 | 0.10 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 282 | 1811 | 13782 | -252 | 117 | 205 | 17356 | 9.24 | 3.08 | 10.78 | 3.08 | -68.57 | 2638.7 | 0.14 |
| 4 | 282 | 1531 | 12604 | -229 | 115 | 188 | 16321 | 9.24 | 3.08 | 10.78 | 3.08 | -64.48 | 2481.3 | 0.13 |
| 5 | 282 | 1438 | 12208 | -221 | 114 | 183 | 15975 | 9.24 | 3.08 | 10.78 | 3.08 | -63.11 | 2428.7 | 0.13 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 318 | 1811 | 12916 | -252 | 117 | 294 | 22071 | 9.24 | 3.08 | 12.32 | 3.08 | -83.17 | 2952.9 | 0.15 |
| 4 | 318 | 1531 | 11797 | -229 | 115 | 269 | 20628 | 9.24 | 3.08 | 12.32 | 3.08 | -77.74 | 2759.9 | 0.14 |
| 5 | 318 | 1438 | 11419 | -221 | 114 | 261 | 20147 | 9.24 | 3.08 | 12.32 | 3.08 | -75.92 | 2695.4 | 0.14 |
| apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 353 | 1811 | 12050 | -252 | 117 | 383 | 26480 | 9.24 | 9.24 | 15.39 | 3.08 | -92.42 | 2863.5 | 0.14 |
| 4 | 353 | 1531 | 10990 | -229 | 115 | 350 | 24650 | 9.24 | 9.24 | 15.39 | 3.08 | -86.03 | 2665.6 | 0.13 |
| 5 | 353 | 1438 | 10630 | -221 | 114 | 339 | 24040 | 9.24 | 9.24 | 15.39 | 3.08 | -83.90 | 2599.6 | 0.13 |
| apost= 6.16 aant= 6.16 ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 67** NI 15511 NF 15512 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.1110 5.0184 23.1294 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | cm | kg | | | kg*m | | cm² | | | | | kg/cm² | mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 0 | 1571 | 2449 | -77 | -23 | -40 | 26180 | 9.24 | 9.24 | 15.39 | 3.08 | -91.37 | 2831.0 | 0.14 |
| 4 | 0 | 1307 | 2170 | -64 | -19 | -24 | 24390 | 9.24 | 9.24 | 15.39 | 3.08 | -85.12 | 2637.5 | 0.13 |
| 5 | 0 | 1220 | 2078 | -60 | -17 | -19 | 23790 | 9.24 | 9.24 | 15.39 | 3.08 | -83.03 | 2572.6 | 0.12 |

apost= 6.16 aant= 6.16 ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 1571 | 1696 | -77 | -23 | -15 | 26856 | 3.08 | 9.24 | 15.39 | 3.08 | -93.73 | 2904.1 | 0.14 |
| 4 | 33 | 1307 | 1466 | -64 | -19 | -3 | 24982 | 3.08 | 9.24 | 15.39 | 3.08 | -87.19 | 2701.5 | 0.13 |
| 5 | 33 | 1220 | 1390 | -60 | -17 | 1 | 24355 | 3.08 | 9.24 | 15.39 | 3.08 | -85.00 | 2633.7 | 0.13 |

apost= -- aant= 6.16 ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 1571 | 943 | -77 | -23 | 10 | 27286 | 3.08 | 3.08 | 15.39 | 3.08 | -95.23 | 2950.6 | 0.14 |
| 4 | 65 | 1307 | 762 | -64 | -19 | 18 | 25344 | 3.08 | 3.08 | 15.39 | 3.08 | -88.45 | 2740.6 | 0.13 |
| 5 | 65 | 1220 | 703 | -60 | -17 | 20 | 24696 | 3.08 | 3.08 | 15.39 | 3.08 | -86.19 | 2670.5 | 0.13 |

apost= -- aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 1571 | 190 | -77 | -23 | 35 | 27471 | 9.24 | 3.08 | 15.39 | 3.08 | -95.88 | 2970.6 | 0.14 |
| 4 | 98 | 1307 | 58 | -64 | -19 | 39 | 25477 | 9.24 | 3.08 | 15.39 | 3.08 | -88.92 | 2755.0 | 0.13 |
| 5 | 98 | 1220 | 15 | -60 | -17 | 40 | 24812 | 9.24 | 3.08 | 15.39 | 3.08 | -86.60 | 2683.1 | 0.13 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 130 | 1571 | -563 | -77 | -23 | 61 | 27411 | 9.24 | 3.08 | 15.39 | 3.08 | -95.67 | 2964.1 | 0.14 |
| 4 | 130 | 1307 | -646 | -64 | -19 | 60 | 25381 | 9.24 | 3.08 | 15.39 | 3.08 | -88.58 | 2744.7 | 0.13 |
| 5 | 130 | 1220 | -673 | -60 | -17 | 59 | 24705 | 9.24 | 3.08 | 15.39 | 3.08 | -86.23 | 2671.6 | 0.13 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 1571 | -1317 | -77 | -23 | 86 | 27105 | 9.24 | 3.08 | 15.39 | 3.08 | -94.60 | 2931.1 | 0.14 |
| 4 | 163 | 1307 | -1351 | -64 | -19 | 80 | 25056 | 9.24 | 3.08 | 15.39 | 3.08 | -87.45 | 2709.5 | 0.13 |
| 5 | 163 | 1220 | -1361 | -60 | -17 | 79 | 24374 | 9.24 | 3.08 | 15.39 | 3.08 | -85.07 | 2635.8 | 0.13 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 195 | 1571 | -2070 | -77 | -23 | 111 | 26555 | 9.24 | 3.08 | 15.39 | 3.08 | -92.68 | 2871.6 | 0.14 |
| 4 | 195 | 1307 | -2055 | -64 | -19 | 101 | 24501 | 9.24 | 3.08 | 15.39 | 3.08 | -85.51 | 2649.5 | 0.13 |
| 5 | 195 | 1220 | -2048 | -60 | -17 | 98 | 23819 | 9.24 | 3.08 | 15.39 | 3.08 | -83.13 | 2575.8 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | 1571 | -2823 | -77 | -23 | 136 | 25759 | 9.24 | 3.08 | 15.39 | 3.08 | -89.90 | 2785.5 | 0.13 |
| 4 | 228 | 1307 | -2759 | -64 | -19 | 122 | 23717 | 9.24 | 3.08 | 15.39 | 3.08 | -82.78 | 2564.7 | 0.12 |
| 5 | 228 | 1220 | -2736 | -60 | -17 | 118 | 23040 | 9.24 | 3.08 | 15.39 | 3.08 | -80.41 | 2491.5 | 0.12 |

apost= 6.16 aant= -- ainf= 12.32 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 260 | 1571 | -3576 | -77 | -23 | 161 | 24718 | 9.24 | 3.08 | 13.85 | 3.08 | -89.42 | 2955.2 | 0.15 |
| 4 | 260 | 1307 | -3463 | -64 | -19 | 143 | 22704 | 9.24 | 3.08 | 13.85 | 3.08 | -82.13 | 2714.5 | 0.14 |
| 5 | 260 | 1220 | -3424 | -60 | -17 | 137 | 22038 | 9.24 | 3.08 | 13.85 | 3.08 | -79.72 | 2634.8 | 0.13 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 293 | 1571 | -4329 | -77 | -23 | 186 | 23432 | 9.24 | 3.08 | 13.85 | 3.08 | -84.77 | 2801.4 | 0.14 |
| 4 | 293 | 1307 | -4167 | -64 | -19 | 164 | 21462 | 9.24 | 3.08 | 13.85 | 3.08 | -77.64 | 2565.9 | 0.13 |
| 5 | 293 | 1220 | -4111 | -60 | -17 | 157 | 20811 | 9.24 | 3.08 | 13.85 | 3.08 | -75.28 | 2488.1 | 0.12 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | 1571 | -5082 | -77 | -23 | 212 | 21900 | 9.24 | 9.24 | 12.32 | 3.08 | -82.53 | 2930.0 | 0.15 |
| 4 | 326 | 1307 | -4871 | -64 | -19 | 185 | 19990 | 9.24 | 9.24 | 12.32 | 3.08 | -75.33 | 2674.5 | 0.14 |
| 5 | 326 | 1220 | -4799 | -60 | -17 | 176 | 19360 | 9.24 | 9.24 | 12.32 | 3.08 | -72.96 | 2590.2 | 0.13 |

apost= 6.16 aant= 6.16 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 66** NI 15512 NF 15521 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.1110 5.0184 23.1294 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | cm² | | | | | kg/cm² | | mm |
| 3 | 0 | 1326 | -13860 | -1 | -164 | -20 | 21870 | 9.24 | 9.24 | 12.32 | 3.08 | -82.42 | 2926.0 | 0.15 |
| 4 | 0 | 1079 | -12950 | 7 | -164 | -9 | 19980 | 9.24 | 9.24 | 12.32 | 3.08 | -75.29 | 2673.2 | 0.14 |
| 5 | 0 | 997 | -12650 | 10 | -163 | -5 | 19350 | 9.24 | 9.24 | 12.32 | 3.08 | -72.92 | 2588.9 | 0.13 |

apost= 6.16 aant= 6.16 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 1326 | -14619 | -1 | -164 | -20 | 17200 | 3.08 | 9.24 | 10.78 | 3.08 | -67.96 | 2614.9 | 0.14 |
| 4 | 33 | 1079 | -13659 | 7 | -164 | -11 | 15616 | 3.08 | 9.24 | 10.78 | 3.08 | -61.70 | 2374.2 | 0.12 |
| 5 | 33 | 997 | -13342 | 10 | -163 | -8 | 15090 | 3.08 | 9.24 | 10.78 | 3.08 | -59.62 | 2294.1 | 0.12 |

apost= -- aant= 6.16 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | 1326 | -15378 | -1 | -164 | -19 | 12282 | 3.08 | 9.24 | 9.24 | 3.08 | -51.31 | 2164.8 | 0.11 |
| 4 | 66 | 1079 | -14368 | 7 | -164 | -13 | 11020 | 3.08 | 9.24 | 9.24 | 3.08 | -46.04 | 1942.5 | 0.09 |
| 5 | 66 | 997 | -14034 | 10 | -163 | -11 | 10603 | 3.08 | 9.24 | 9.24 | 3.08 | -44.29 | 1868.9 | 0.09 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 1326 | -16137 | -1 | -164 | -19 | 7114 | 3.08 | 9.24 | 9.24 | 3.08 | -17.23 | 144.4 | 0.00 |
| 4 | 98 | 1079 | -15077 | 7 | -164 | -16 | 6191 | 3.08 | 9.24 | 9.24 | 3.08 | -15.00 | 125.7 | 0.00 |
| 5 | 98 | 997 | -14726 | 10 | -163 | -15 | 5889 | 3.08 | 9.24 | 9.24 | 3.08 | -14.26 | 119.5 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 1326 | -16896 | -1 | -164 | -19 | 1698 | 3.08 | 9.24 | 9.24 | 3.08 | -4.11 | 34.5 | 0.00 |
| 4 | 131 | 1079 | -15786 | 7 | -164 | -18 | 1130 | 3.08 | 9.24 | 9.24 | 3.08 | -2.74 | 22.9 | 0.00 |
| 5 | 131 | 997 | -15418 | 10 | -163 | -18 | 947 | 3.08 | 9.24 | 9.24 | 3.08 | -2.29 | 19.2 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 164 | 1326 | -17655 | -1 | -164 | -18 | -3966 | 3.08 | 9.24 | 3.08 | 9.24 | -9.61 | 80.5 | 0.00 |
| 4 | 164 | 1079 | -16495 | 7 | -164 | -21 | -4164 | 3.08 | 9.24 | 3.08 | 9.24 | -10.09 | 84.5 | 0.00 |
| 5 | 164 | 997 | -16110 | 10 | -163 | -22 | -4221 | 3.08 | 9.24 | 3.08 | 9.24 | -10.22 | 85.7 | 0.00 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 197 | 1326 | -18414 | -1 | -164 | -18 | -9880 | 3.08 | 9.24 | 3.08 | 9.24 | -41.27 | 1741.4 | 0.08 |
| 4 | 197 | 1079 | -17204 | 7 | -164 | -23 | -9690 | 3.08 | 9.24 | 3.08 | 9.24 | -40.48 | 1708.0 | 0.08 |
| 5 | 197 | 997 | -16802 | 10 | -163 | -25 | -9617 | 3.08 | 9.24 | 3.08 | 9.24 | -40.17 | 1695.1 | 0.07 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 230 | 1326 | -19173 | -1 | -164 | -18 | -16042 | 3.08 | 9.24 | 3.08 | 9.24 | -67.01 | 2827.6 | 0.16 |
| 4 | 230 | 1079 | -17913 | 7 | -164 | -26 | -15449 | 3.08 | 9.24 | 3.08 | 9.24 | -64.54 | 2723.1 | 0.15 |
| 5 | 230 | 997 | -17494 | 10 | -163 | -28 | -15239 | 3.08 | 9.24 | 3.08 | 9.24 | -63.66 | 2686.2 | 0.15 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 262 | 1326 | -19932 | -1 | -164 | -17 | -22452 | 9.24 | 3.08 | 6.16 | 12.32 | -79.57 | 2979.8 | 0.16 |
| 4 | 262 | 1079 | -18622 | 7 | -164 | -28 | -21440 | 9.24 | 3.08 | 6.16 | 12.32 | -75.99 | 2845.4 | 0.15 |
| 5 | 262 | 997 | -18186 | 10 | -163 | -32 | -21089 | 9.24 | 3.08 | 6.16 | 12.32 | -74.74 | 2798.8 | 0.14 |

apost= 6.16 aant= -- ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 1326 | -20691 | -1 | -164 | -17 | -29112 | 9.24 | 3.08 | 9.24 | 16.93 | -87.86 | 2827.9 | 0.13 |
| 4 | 295 | 1079 | -19331 | 7 | -164 | -31 | -27664 | 9.24 | 3.08 | 9.24 | 16.93 | -83.49 | 2687.2 | 0.13 |
| 5 | 295 | 997 | -18878 | 10 | -163 | -35 | -27166 | 9.24 | 3.08 | 9.24 | 16.93 | -81.99 | 2638.8 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= 13.85 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 328 | 1326 | -21450 | -1 | -164 | -17 | -32803 | 9.24 | 3.08 | 9.24 | 18.47 | -96.35 | 2932.3 | 0.14 |
| 4 | 328 | 1079 | -20040 | 7 | -164 | -33 | -31114 | 9.24 | 3.08 | 9.24 | 18.47 | -91.39 | 2781.4 | 0.13 |
| 5 | 328 | 997 | -19570 | 10 | -163 | -38 | -30535 | 9.24 | 3.08 | 9.24 | 18.47 | -89.69 | 2729.6 | 0.13 |

apost= 6.16 aant= -- ainf= 6.16 asup= 15.39 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 71** NI 15081 NF 15514 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.5490 5.4468 24.9958 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | 1468 | 17080 | -129 | -326 | -291 | -20660 | 3.08 | 9.24 | 6.16 | 12.32 | -73.22 | 2741.9 | 0.14 |
| 4 | 0 | 1332 | 15720 | -116 | -295 | -261 | -18650 | 3.08 | 9.24 | 6.16 | 12.32 | -66.10 | 2475.1 | 0.13 |
| 5 | 0 | 1288 | 15260 | -111 | -286 | -251 | -17970 | 3.08 | 9.24 | 6.16 | 12.32 | -63.69 | 2384.9 | 0.12 |

apost= -- aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | 1468 | 16197 | -129 | -326 | -246 | -14787 | 3.08 | 9.24 | 4.62 | 9.24 | -59.78 | 2596.5 | 0.14 |
| 4 | 35 | 1332 | 14895 | -116 | -295 | -220 | -13246 | 3.08 | 9.24 | 4.62 | 9.24 | -53.55 | 2326.1 | 0.12 |
| 5 | 35 | 1288 | 14455 | -111 | -286 | -212 | -12724 | 3.08 | 9.24 | 4.62 | 9.24 | -51.44 | 2234.3 | 0.12 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 1468 | 15314 | -129 | -326 | -200 | -9225 | 3.08 | 9.24 | 4.62 | 9.24 | -37.30 | 1619.9 | 0.07 |
| 4 | 71 | 1332 | 14070 | -116 | -295 | -180 | -8134 | 3.08 | 9.24 | 4.62 | 9.24 | -19.46 | 164.2 | 0.00 |
| 5 | 71 | 1288 | 13649 | -111 | -286 | -173 | -7762 | 3.08 | 9.24 | 4.62 | 9.24 | -18.57 | 156.7 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 106 | 1468 | 14431 | -129 | -326 | -155 | -3975 | 3.08 | 9.24 | 3.08 | 9.24 | -9.63 | 80.7 | 0.00 |
| 4 | 106 | 1332 | 13244 | -116 | -295 | -139 | -3313 | 3.08 | 9.24 | 3.08 | 9.24 | -8.03 | 67.2 | 0.00 |
| 5 | 106 | 1288 | 12844 | -111 | -286 | -133 | -3085 | 3.08 | 9.24 | 3.08 | 9.24 | -7.47 | 62.6 | 0.00 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 141 | 1468 | 13548 | -129 | -326 | -109 | 963 | 3.08 | 9.24 | 9.24 | 3.08 | -2.33 | 19.6 | 0.00 |
| 4 | 141 | 1332 | 12419 | -116 | -295 | -98 | 1217 | 3.08 | 9.24 | 9.24 | 3.08 | -2.95 | 24.7 | 0.00 |
| 5 | 141 | 1288 | 12038 | -111 | -286 | -94 | 1307 | 3.08 | 9.24 | 9.24 | 3.08 | -3.17 | 26.5 | 0.00 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 177 | 1468 | 12666 | -129 | -326 | -64 | 5590 | 3.08 | 9.24 | 9.24 | 3.08 | -13.54 | 113.5 | 0.00 |
| 4 | 177 | 1332 | 11594 | -116 | -295 | -57 | 5456 | 3.08 | 9.24 | 9.24 | 3.08 | -13.22 | 110.7 | 0.00 |
| 5 | 177 | 1288 | 11233 | -111 | -286 | -55 | 5416 | 3.08 | 9.24 | 9.24 | 3.08 | -13.12 | 109.9 | 0.00 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 212 | 1468 | 11783 | -129 | -326 | -18 | 9905 | 3.08 | 9.24 | 9.24 | 3.08 | -41.38 | 1746.0 | 0.08 |
| 4 | 212 | 1332 | 10769 | -116 | -295 | -16 | 9403 | 3.08 | 9.24 | 9.24 | 3.08 | -39.28 | 1657.4 | 0.07 |
| 5 | 212 | 1288 | 10428 | -111 | -286 | -16 | 9239 | 3.08 | 9.24 | 9.24 | 3.08 | -38.60 | 1628.6 | 0.07 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 247 | 1468 | 10900 | -129 | -326 | 27 | 13909 | 9.24 | 3.08 | 9.24 | 3.08 | -58.10 | 2451.7 | 0.13 |
| 4 | 247 | 1332 | 9944 | -116 | -295 | 25 | 13059 | 9.24 | 3.08 | 9.24 | 3.08 | -54.55 | 2301.9 | 0.12 |
| 5 | 247 | 1288 | 9622 | -111 | -286 | 23 | 12779 | 9.24 | 3.08 | 9.24 | 3.08 | -53.38 | 2252.4 | 0.12 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 282 | 1468 | 10017 | -129 | -326 | 73 | 17601 | 9.24 | 3.08 | 10.78 | 3.08 | -69.54 | 2675.9 | 0.14 |
| 4 | 282 | 1332 | 9118 | -116 | -295 | 65 | 16424 | 9.24 | 3.08 | 10.78 | 3.08 | -64.89 | 2496.9 | 0.13 |
| 5 | 282 | 1288 | 8817 | -111 | -286 | 63 | 16034 | 9.24 | 3.08 | 10.78 | 3.08 | -63.35 | 2437.6 | 0.13 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 318 | 1468 | 9134 | -129 | -326 | 118 | 20981 | 9.24 | 3.08 | 12.32 | 3.08 | -79.07 | 2807.1 | 0.14 |
| 4 | 318 | 1332 | 8293 | -116 | -295 | 106 | 19498 | 9.24 | 3.08 | 12.32 | 3.08 | -73.48 | 2608.6 | 0.13 |
| 5 | 318 | 1288 | 8011 | -111 | -286 | 102 | 19004 | 9.24 | 3.08 | 12.32 | 3.08 | -71.62 | 2542.6 | 0.13 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 353 | 1468 | 8251 | -129 | -326 | 164 | 24050 | 9.24 | 3.08 | 13.85 | 3.08 | -87.00 | 2875.4 | 0.14 |
| 4 | 353 | 1332 | 7468 | -116 | -295 | 147 | 22280 | 9.24 | 3.08 | 13.85 | 3.08 | -80.60 | 2663.8 | 0.13 |
| 5 | 353 | 1288 | 7206 | -111 | -286 | 141 | 21690 | 9.24 | 3.08 | 13.85 | 3.08 | -78.47 | 2593.2 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 70**  NI 15514  NF 15515  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.5620  5.0184  23.5804  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 1874 | 2039 | -19 | -31 | 28 | 24010 | 9.24 | 3.08 | 13.85 | 3.08 | -86.86 | 2870.6 | 0.14 |
| 4 | 0 | 1711 | 1825 | -10 | -2 | 40 | 22250 | 9.24 | 3.08 | 13.85 | 3.08 | -80.49 | 2660.2 | 0.13 |
| 5 | 0 | 1658 | 1754 | -7 | 6 | 44 | 21660 | 9.24 | 3.08 | 13.85 | 3.08 | -78.36 | 2589.6 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 1874 | 1271 | -19 | -31 | 34 | 24549 | 9.24 | 3.08 | 13.85 | 3.08 | -88.81 | 2935.1 | 0.15 |
| 4 | 33 | 1711 | 1106 | -10 | -2 | 44 | 22727 | 9.24 | 3.08 | 13.85 | 3.08 | -82.22 | 2717.2 | 0.14 |
| 5 | 33 | 1658 | 1052 | -7 | 6 | 47 | 22116 | 9.24 | 3.08 | 13.85 | 3.08 | -80.01 | 2644.2 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 1874 | 503 | -19 | -31 | 41 | 24838 | 9.24 | 3.08 | 13.85 | 3.08 | -89.85 | 2969.6 | 0.15 |
| 4 | 65 | 1711 | 387 | -10 | -2 | 47 | 22970 | 9.24 | 3.08 | 13.85 | 3.08 | -83.10 | 2746.3 | 0.14 |
| 5 | 65 | 1658 | 349 | -7 | 6 | 49 | 22344 | 9.24 | 3.08 | 13.85 | 3.08 | -80.83 | 2671.4 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 1874 | -264 | -19 | -31 | 47 | 24877 | 9.24 | 3.08 | 13.85 | 3.08 | -90.00 | 2974.3 | 0.15 |
| 4 | 98 | 1711 | -331 | -10 | -2 | 50 | 22979 | 9.24 | 3.08 | 13.85 | 3.08 | -83.13 | 2747.4 | 0.14 |
| 5 | 98 | 1658 | -353 | -7 | 6 | 51 | 22343 | 9.24 | 3.08 | 13.85 | 3.08 | -80.83 | 2671.3 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 130 | 1874 | -1032 | -19 | -31 | 53 | 24666 | 9.24 | 3.08 | 13.85 | 3.08 | -89.23 | 2949.0 | 0.15 |
| 4 | 130 | 1711 | -1050 | -10 | -2 | 53 | 22755 | 9.24 | 3.08 | 13.85 | 3.08 | -82.32 | 2720.5 | 0.14 |
| 5 | 130 | 1658 | -1056 | -7 | 6 | 53 | 22113 | 9.24 | 3.08 | 13.85 | 3.08 | -79.99 | 2643.8 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 1874 | -1800 | -19 | -31 | 60 | 24205 | 9.24 | 3.08 | 13.85 | 3.08 | -87.56 | 2893.9 | 0.15 |
| 4 | 163 | 1711 | -1769 | -10 | -2 | 57 | 22296 | 9.24 | 3.08 | 13.85 | 3.08 | -80.66 | 2665.6 | 0.13 |
| 5 | 163 | 1658 | -1758 | -7 | 6 | 55 | 21654 | 9.24 | 3.08 | 13.85 | 3.08 | -78.34 | 2588.9 | 0.13 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 195 | 1874 | -2568 | -19 | -31 | 66 | 23494 | 9.24 | 3.08 | 13.85 | 3.08 | -84.99 | 2808.9 | 0.14 |
| 4 | 195 | 1711 | -2488 | -10 | -2 | 60 | 21603 | 9.24 | 3.08 | 13.85 | 3.08 | -78.15 | 2582.8 | 0.13 |
| 5 | 195 | 1658 | -2460 | -7 | 6 | 58 | 20967 | 9.24 | 3.08 | 13.85 | 3.08 | -75.85 | 2506.8 | 0.12 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | 1874 | -3336 | -19 | -31 | 72 | 22533 | 9.24 | 3.08 | 13.85 | 3.08 | -81.52 | 2694.0 | 0.13 |
| 4 | 228 | 1711 | -3207 | -10 | -2 | 63 | 20675 | 9.24 | 3.08 | 13.85 | 3.08 | -74.80 | 2471.9 | 0.12 |
| 5 | 228 | 1658 | -3163 | -7 | 6 | 60 | 20051 | 9.24 | 3.08 | 13.85 | 3.08 | -72.53 | 2397.2 | 0.12 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 260 | 1874 | -4103 | -19 | -31 | 79 | 21322 | 9.24 | 3.08 | 12.32 | 3.08 | -80.35 | 2852.7 | 0.15 |
| 4 | 260 | 1711 | -3925 | -10 | -2 | 66 | 19514 | 9.24 | 3.08 | 12.32 | 3.08 | -73.54 | 2610.9 | 0.13 |
| 5 | 260 | 1658 | -3865 | -7 | 6 | 62 | 18906 | 9.24 | 3.08 | 12.32 | 3.08 | -71.25 | 2529.4 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 293 | 1874 | -4871 | -19 | -31 | 85 | 19861 | 9.24 | 3.08 | 12.32 | 3.08 | -74.85 | 2657.2 | 0.14 |
| 4 | 293 | 1711 | -4644 | -10 | -2 | 70 | 18119 | 9.24 | 3.08 | 12.32 | 3.08 | -68.28 | 2424.2 | 0.12 |
| 5 | 293 | 1658 | -4568 | -7 | 6 | 64 | 17532 | 9.24 | 3.08 | 12.32 | 3.08 | -66.07 | 2345.7 | 0.12 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | 1874 | -5639 | -19 | -31 | 91 | 18150 | 9.24 | 4.62 | 10.78 | 3.08 | -71.71 | 2759.4 | 0.15 |
| 4 | 326 | 1711 | -5363 | -10 | -2 | 73 | 16490 | 9.24 | 4.62 | 10.78 | 3.08 | -65.15 | 2507.0 | 0.13 |
| 5 | 326 | 1658 | -5270 | -7 | 6 | 67 | 15930 | 9.24 | 4.62 | 10.78 | 3.08 | -62.94 | 2421.8 | 0.13 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 69** NI 15515 NF 15520 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.5620 5.0184 23.5804 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 2250 | -12200 | 52 | 959 | 79 | 18410 | 9.24 | 4.62 | 10.78 | 3.08 | -72.74 | 2798.9 | 0.15 |
| 4 | 0 | 2061 | -11320 | 55 | 895 | 81 | 16730 | 9.24 | 4.62 | 10.78 | 3.08 | -66.10 | 2543.5 | 0.13 |
| 5 | 0 | 2000 | -11030 | 56 | 875 | 82 | 16170 | 9.24 | 4.62 | 10.78 | 3.08 | -63.89 | 2458.3 | 0.13 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 2250 | -12973 | 52 | 959 | 62 | 14284 | 9.24 | 4.62 | 9.24 | 3.08 | -59.67 | 2517.8 | 0.14 |
| 4 | 33 | 2061 | -12044 | 55 | 895 | 63 | 12899 | 9.24 | 4.62 | 9.24 | 3.08 | -53.88 | 2273.7 | 0.12 |
| 5 | 33 | 2000 | -11737 | 56 | 875 | 64 | 12438 | 9.24 | 4.62 | 9.24 | 3.08 | -51.96 | 2192.4 | 0.11 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | 2250 | -13746 | 52 | 959 | 45 | 9904 | 9.24 | 4.62 | 9.24 | 3.08 | -41.37 | 1745.8 | 0.08 |
| 4 | 66 | 2061 | -12768 | 55 | 895 | 45 | 8831 | 9.24 | 4.62 | 9.24 | 3.08 | -36.89 | 1556.6 | 0.06 |
| 5 | 66 | 2000 | -12444 | 56 | 875 | 46 | 8474 | 9.24 | 4.62 | 9.24 | 3.08 | -35.40 | 1493.6 | 0.06 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 2250 | -14519 | 52 | 959 | 28 | 5271 | 9.24 | 4.62 | 9.24 | 3.08 | -12.77 | 107.0 | 0.00 |
| 4 | 98 | 2061 | -13492 | 55 | 895 | 27 | 4525 | 9.24 | 4.62 | 9.24 | 3.08 | -10.96 | 91.8 | 0.00 |
| 5 | 98 | 2000 | -13151 | 56 | 875 | 27 | 4278 | 9.24 | 4.62 | 9.24 | 3.08 | -10.36 | 86.8 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 2250 | -15292 | 52 | 959 | 11 | 385 | 9.24 | 4.62 | 9.24 | 9.24 | -0.89 | 7.7 | 0.00 |
| 4 | 131 | 2061 | -14216 | 55 | 895 | 9 | -18 | 9.24 | 4.62 | 9.24 | 9.24 | -0.04 | 0.4 | 0.00 |
| 5 | 131 | 2000 | -13858 | 56 | 875 | 9 | -150 | 9.24 | 4.62 | 9.24 | 9.24 | -0.35 | 3.0 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 164 | 2250 | -16065 | 52 | 959 | -6 | -4756 | 4.62 | 4.62 | 3.08 | 9.24 | -11.52 | 96.5 | 0.00 |
| 4 | 164 | 2061 | -14940 | 55 | 895 | -8 | -4798 | 4.62 | 4.62 | 3.08 | 9.24 | -11.62 | 97.4 | 0.00 |
| 5 | 164 | 2000 | -14565 | 56 | 875 | -9 | -4810 | 4.62 | 4.62 | 3.08 | 9.24 | -11.65 | 97.6 | 0.00 |

apost= 1.54 aant= 1.54 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 197 | 2250 | -16838 | 52 | 959 | -23 | -10149 | 4.62 | 9.24 | 3.08 | 9.24 | -42.40 | 1789.0 | 0.08 |
| 4 | 197 | 2061 | -15664 | 55 | 895 | -26 | -9816 | 4.62 | 9.24 | 3.08 | 9.24 | -41.00 | 1730.2 | 0.08 |
| 5 | 197 | 2000 | -15272 | 56 | 875 | -28 | -9702 | 4.62 | 9.24 | 3.08 | 9.24 | -40.53 | 1710.2 | 0.08 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 230 | 2250 | -17611 | 52 | 959 | -40 | -15797 | 4.62 | 9.24 | 3.08 | 9.24 | -65.99 | 2784.4 | 0.16 |
| 4 | 230 | 2061 | -16388 | 55 | 895 | -44 | -15071 | 4.62 | 9.24 | 3.08 | 9.24 | -62.96 | 2656.4 | 0.15 |
| 5 | 230 | 2000 | -15979 | 56 | 875 | -46 | -14826 | 4.62 | 9.24 | 3.08 | 9.24 | -61.94 | 2613.4 | 0.14 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 262 | 2250 | -18384 | 52 | 959 | -57 | -21698 | 4.62 | 9.24 | 6.16 | 12.32 | -76.90 | 2879.6 | 0.15 |
| 4 | 262 | 2061 | -17112 | 55 | 895 | -62 | -20563 | 4.62 | 9.24 | 6.16 | 12.32 | -72.88 | 2729.0 | 0.14 |
| 5 | 262 | 2000 | -16686 | 56 | 875 | -64 | -20182 | 4.62 | 9.24 | 6.16 | 12.32 | -71.53 | 2678.5 | 0.14 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 2250 | -19157 | 52 | 959 | -73 | -27852 | 4.62 | 9.24 | 7.70 | 15.39 | -89.06 | 2974.3 | 0.14 |
| 4 | 295 | 2061 | -17836 | 55 | 895 | -80 | -26293 | 4.62 | 9.24 | 7.70 | 15.39 | -84.07 | 2807.8 | 0.14 |
| 5 | 295 | 2000 | -17393 | 56 | 875 | -82 | -25770 | 4.62 | 9.24 | 7.70 | 15.39 | -82.40 | 2752.0 | 0.13 |

apost= 1.54 aant= 6.16 ainf= 4.62 asup= 12.32  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 328 | 2250 | -19930 | 52 | 959 | -90 | -31271 | 4.62 | 9.24 | 9.24 | 18.47 | -91.85 | 2795.3 | 0.13 |
| 4 | 328 | 2061 | -18560 | 55 | 895 | -98 | -29476 | 4.62 | 9.24 | 9.24 | 18.47 | -86.58 | 2634.9 | 0.12 |
| 5 | 328 | 2000 | -18100 | 56 | 875 | -101 | -28875 | 4.62 | 9.24 | 9.24 | 18.47 | -84.82 | 2581.2 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 15.39  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 74**  NI 15080  NF 15517  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  7.2090  5.4468  19.6558  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 3943 | 13620 | 351 | -730 | 773 | -19560 | 9.24 | 4.62 | 6.16 | 12.32 | -69.32 | 2595.9 | 0.13 |
| 4 | 0 | 3627 | 12350 | 337 | -645 | 743 | -17440 | 9.24 | 4.62 | 6.16 | 12.32 | -61.81 | 2314.6 | 0.12 |
| 5 | 0 | 3524 | 11920 | 334 | -617 | 735 | -16740 | 9.24 | 4.62 | 6.16 | 12.32 | -59.33 | 2221.7 | 0.11 |

apost= 6.16 aant= 1.54 ainf= 3.08 asup= 9.24  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | 3943 | 12926 | 351 | -730 | 649 | -14874 | 9.24 | 4.62 | 4.62 | 9.24 | -60.14 | 2611.9 | 0.14 |
| 4 | 35 | 3627 | 11713 | 337 | -645 | 624 | -13193 | 9.24 | 4.62 | 4.62 | 9.24 | -53.34 | 2316.7 | 0.12 |
| 5 | 35 | 3524 | 11303 | 334 | -617 | 617 | -12639 | 9.24 | 4.62 | 4.62 | 9.24 | -51.10 | 2219.3 | 0.12 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3943 | 12231 | 351 | -730 | 525 | -10434 | 9.24 | 4.62 | 4.62 | 9.24 | -42.18 | 1832.1 | 0.09 |
| 4 | 71 | 3627 | 11077 | 337 | -645 | 505 | -9171 | 9.24 | 4.62 | 4.62 | 9.24 | -37.08 | 1610.4 | 0.07 |
| 5 | 71 | 3524 | 10687 | 334 | -617 | 499 | -8755 | 9.24 | 4.62 | 4.62 | 9.24 | -35.40 | 1537.4 | 0.06 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 106 | 3943 | 11537 | 351 | -730 | 400 | -6238 | 9.24 | 4.62 | 3.08 | 9.24 | -15.11 | 126.6 | 0.00 |
| 4 | 106 | 3627 | 10440 | 337 | -645 | 386 | -5373 | 9.24 | 4.62 | 3.08 | 9.24 | -13.02 | 109.0 | 0.00 |
| 5 | 106 | 3524 | 10070 | 334 | -617 | 382 | -5089 | 9.24 | 4.62 | 3.08 | 9.24 | -12.33 | 103.3 | 0.00 |

apost= 6.16 aant= 1.54 ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 141 | 3943 | 10842 | 351 | -730 | 276 | -2288 | 9.24 | 4.62 | 3.08 | 9.24 | -5.54 | 46.4 | 0.00 |
| 4 | 141 | 3627 | 9803 | 337 | -645 | 267 | -1800 | 9.24 | 4.62 | 3.08 | 9.24 | -4.36 | 36.5 | 0.00 |
| 5 | 141 | 3524 | 9453 | 334 | -617 | 264 | -1641 | 9.24 | 4.62 | 3.08 | 9.24 | -3.98 | 33.3 | 0.00 |

apost= 6.16 aant= 1.54 ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 177 | 3943 | 10148 | 351 | -730 | 152 | 1418 | 9.24 | 4.62 | 9.24 | 3.08 | -3.43 | 28.8 | 0.00 |
| 4 | 177 | 3627 | 9167 | 337 | -645 | 148 | 1548 | 9.24 | 4.62 | 9.24 | 3.08 | -3.75 | 31.4 | 0.00 |
| 5 | 177 | 3524 | 8836 | 334 | -617 | 146 | 1588 | 9.24 | 4.62 | 9.24 | 3.08 | -3.85 | 32.2 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 212 | 3943 | 9454 | 351 | -730 | 28 | 4878 | 9.24 | 4.62 | 9.24 | 3.08 | -11.82 | 99.0 | 0.00 |
| 4 | 212 | 3627 | 8530 | 337 | -645 | 28 | 4672 | 9.24 | 4.62 | 9.24 | 3.08 | -11.32 | 94.8 | 0.00 |
| 5 | 212 | 3524 | 8220 | 334 | -617 | 29 | 4601 | 9.24 | 4.62 | 9.24 | 3.08 | -11.14 | 93.4 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 247 | 3943 | 8759 | 351 | -730 | -96 | 8094 | 4.62 | 9.24 | 9.24 | 3.08 | -19.61 | 164.3 | 0.00 |
| 4 | 247 | 3627 | 7893 | 337 | -645 | -91 | 7571 | 4.62 | 9.24 | 9.24 | 3.08 | -18.34 | 153.7 | 0.00 |
| 5 | 247 | 3524 | 7603 | 334 | -617 | -89 | 7395 | 4.62 | 9.24 | 9.24 | 3.08 | -17.91 | 150.1 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 282 | 3943 | 8065 | 351 | -730 | -220 | 11064 | 4.62 | 9.24 | 9.24 | 3.08 | -46.22 | 1950.3 | 0.10 |
| 4 | 282 | 3627 | 7256 | 337 | -645 | -210 | 10245 | 4.62 | 9.24 | 9.24 | 3.08 | -42.80 | 1805.9 | 0.08 |
| 5 | 282 | 3524 | 6986 | 334 | -617 | -207 | 9971 | 4.62 | 9.24 | 9.24 | 3.08 | -41.65 | 1757.5 | 0.08 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 318 | 3943 | 7370 | 351 | -730 | -344 | 13790 | 4.62 | 9.24 | 9.24 | 3.08 | -57.60 | 2430.6 | 0.13 |
| 4 | 318 | 3627 | 6620 | 337 | -645 | -329 | 12695 | 4.62 | 9.24 | 9.24 | 3.08 | -53.03 | 2237.7 | 0.12 |
| 5 | 318 | 3524 | 6370 | 334 | -617 | -325 | 12329 | 4.62 | 9.24 | 9.24 | 3.08 | -51.51 | 2173.3 | 0.11 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 353 | 3943 | 6676 | 351 | -730 | -468 | 16270 | 9.24 | 9.24 | 10.78 | 3.08 | -64.28 | 2473.5 | 0.13 |
| 4 | 353 | 3627 | 5983 | 337 | -645 | -448 | 14920 | 9.24 | 9.24 | 10.78 | 3.08 | -58.95 | 2268.3 | 0.12 |
| 5 | 353 | 3524 | 5753 | 334 | -617 | -442 | 14470 | 9.24 | 9.24 | 10.78 | 3.08 | -57.17 | 2199.9 | 0.11 |

apost= 6.16 aant= 6.16 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 73**  NI 15517  NF 15518  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  6.6420  5.0184  18.6604  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 3918 | 2033 | 84 | 606 | 134 | 16110 | 9.24 | 9.24 | 10.78 | 3.08 | -63.65 | 2449.2 | 0.13 |
| 4 | 0 | 3600 | 1799 | 82 | 597 | 129 | 14790 | 9.24 | 9.24 | 10.78 | 3.08 | -58.43 | 2248.5 | 0.11 |
| 5 | 0 | 3497 | 1720 | 81 | 594 | 127 | 14350 | 9.24 | 9.24 | 10.78 | 3.08 | -56.70 | 2181.6 | 0.11 |
| apost= 6.16 aant= 6.16 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 33 | 3918 | 1425 | 84 | 606 | 107 | 16672 | 9.24 | 3.08 | 10.78 | 3.08 | -65.87 | 2534.7 | 0.13 |
| 4 | 33 | 3600 | 1240 | 82 | 597 | 102 | 15284 | 9.24 | 3.08 | 10.78 | 3.08 | -60.39 | 2323.7 | 0.12 |
| 5 | 33 | 3497 | 1178 | 81 | 594 | 101 | 14823 | 9.24 | 3.08 | 10.78 | 3.08 | -58.56 | 2253.5 | 0.11 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 65 | 3918 | 818 | 84 | 606 | 79 | 17037 | 9.24 | 3.08 | 10.78 | 3.08 | -67.31 | 2590.1 | 0.14 |
| 4 | 65 | 3600 | 682 | 82 | 597 | 76 | 15597 | 9.24 | 3.08 | 10.78 | 3.08 | -61.62 | 2371.2 | 0.12 |
| 5 | 65 | 3497 | 636 | 81 | 594 | 75 | 15118 | 9.24 | 3.08 | 10.78 | 3.08 | -59.73 | 2298.5 | 0.12 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 98 | 3918 | 210 | 84 | 606 | 52 | 17203 | 9.24 | 3.08 | 10.78 | 3.08 | -67.97 | 2615.4 | 0.14 |
| 4 | 98 | 3600 | 123 | 82 | 597 | 49 | 15728 | 9.24 | 3.08 | 10.78 | 3.08 | -62.14 | 2391.1 | 0.12 |
| 5 | 98 | 3497 | 93 | 81 | 594 | 48 | 15238 | 9.24 | 3.08 | 10.78 | 3.08 | -60.20 | 2316.6 | 0.12 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 130 | 3918 | -397 | 84 | 606 | 25 | 17172 | 9.24 | 3.08 | 10.78 | 3.08 | -67.84 | 2610.7 | 0.14 |
| 4 | 130 | 3600 | -435 | 82 | 597 | 23 | 15677 | 9.24 | 3.08 | 10.78 | 3.08 | -61.94 | 2383.3 | 0.12 |
| 5 | 130 | 3497 | -449 | 81 | 594 | 22 | 15181 | 9.24 | 3.08 | 10.78 | 3.08 | -59.98 | 2307.9 | 0.12 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 163 | 3918 | -1005 | 84 | 606 | -3 | 16943 | 3.08 | 3.08 | 10.78 | 3.08 | -66.94 | 2575.9 | 0.14 |
| 4 | 163 | 3600 | -994 | 82 | 597 | -4 | 15443 | 3.08 | 3.08 | 10.78 | 3.08 | -61.02 | 2347.9 | 0.12 |
| 5 | 163 | 3497 | -991 | 81 | 594 | -5 | 14947 | 3.08 | 3.08 | 10.78 | 3.08 | -59.05 | 2272.4 | 0.12 |
| apost= -- aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 195 | 3918 | -1613 | 84 | 606 | -30 | 16516 | 3.08 | 9.24 | 10.78 | 3.08 | -65.25 | 2511.0 | 0.13 |
| 4 | 195 | 3600 | -1553 | 82 | 597 | -31 | 15029 | 3.08 | 9.24 | 10.78 | 3.08 | -59.38 | 2284.8 | 0.12 |
| 5 | 195 | 3497 | -1533 | 81 | 594 | -31 | 14537 | 3.08 | 9.24 | 10.78 | 3.08 | -57.43 | 2210.0 | 0.11 |
| apost= -- aant= 6.16 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 228 | 3918 | -2220 | 84 | 606 | -58 | 15891 | 3.08 | 9.24 | 9.24 | 3.08 | -66.38 | 2801.1 | 0.16 |
| 4 | 228 | 3600 | -2111 | 82 | 597 | -57 | 14432 | 3.08 | 9.24 | 9.24 | 3.08 | -60.29 | 2543.8 | 0.14 |
| 5 | 228 | 3497 | -2075 | 81 | 594 | -57 | 13950 | 3.08 | 9.24 | 9.24 | 3.08 | -58.27 | 2458.9 | 0.13 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 260 | 3918 | -2828 | 84 | 606 | -85 | 15069 | 3.08 | 9.24 | 9.24 | 3.08 | -62.95 | 2656.1 | 0.15 |
| 4 | 260 | 3600 | -2670 | 82 | 597 | -84 | 13653 | 3.08 | 9.24 | 9.24 | 3.08 | -57.03 | 2406.6 | 0.13 |
| 5 | 260 | 3497 | -2618 | 81 | 594 | -84 | 13186 | 3.08 | 9.24 | 9.24 | 3.08 | -55.09 | 2324.3 | 0.12 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 293 | 3918 | -3435 | 84 | 606 | -112 | 14048 | 3.08 | 9.24 | 9.24 | 3.08 | -58.69 | 2476.2 | 0.13 |
| 4 | 293 | 3600 | -3228 | 82 | 597 | -110 | 12692 | 3.08 | 9.24 | 9.24 | 3.08 | -53.02 | 2237.2 | 0.12 |
| 5 | 293 | 3497 | -3160 | 81 | 594 | -110 | 12247 | 3.08 | 9.24 | 9.24 | 3.08 | -51.16 | 2158.6 | 0.11 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 326 | 3918 | -4043 | 84 | 606 | -140 | 12830 | 9.24 | 9.24 | 9.24 | 4.62 | -51.87 | 2252.9 | 0.12 |
| 4 | 326 | 3600 | -3787 | 82 | 597 | -137 | 11550 | 9.24 | 9.24 | 9.24 | 4.62 | -46.70 | 2028.2 | 0.10 |
| 5 | 326 | 3497 | -3702 | 81 | 594 | -137 | 11130 | 9.24 | 9.24 | 9.24 | 4.62 | -45.00 | 1954.4 | 0.10 |
| apost= 6.16 aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 72** NI 15518 NF 15525 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6420 5.0184 18.6604 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | 3825 | -8672 | 242 | 2624 | 382 | 13000 | 9.24 | 9.24 | 9.24 | 4.62 | -52.56 | 2282.8 | 0.12 |
| 4 | 0 | 3511 | -8006 | 233 | 2338 | 364 | 11710 | 9.24 | 9.24 | 9.24 | 4.62 | -47.34 | 2056.3 | 0.10 |
| 5 | 0 | 3409 | -7790 | 230 | 2244 | 359 | 11280 | 9.24 | 9.24 | 9.24 | 4.62 | -45.60 | 1980.8 | 0.10 |
| apost= 6.16 aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 33 | 3825 | -9284 | 242 | 2624 | 302 | 10057 | 9.24 | 4.62 | 9.24 | 4.62 | -40.66 | 1766.0 | 0.08 |
| 4 | 33 | 3511 | -8568 | 233 | 2338 | 288 | 8992 | 9.24 | 4.62 | 9.24 | 4.62 | -36.35 | 1579.0 | 0.07 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 33 | 3409 | -8336 | 230 | 2244 | 283 | 8636 | 9.24 | 4.62 | 9.24 | 4.62 | -34.91 | 1516.4 | 0.06 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | 3825 | -9896 | 242 | 2624 | 223 | 6913 | 9.24 | 4.62 | 9.24 | 4.62 | -16.54 | 139.6 | 0.00 |
| 4 | 66 | 3511 | -9131 | 233 | 2338 | 212 | 6090 | 9.24 | 4.62 | 9.24 | 4.62 | -14.57 | 123.0 | 0.00 |
| 5 | 66 | 3409 | -8882 | 230 | 2244 | 208 | 5812 | 9.24 | 4.62 | 9.24 | 4.62 | -13.91 | 117.4 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 3825 | -10507 | 242 | 2624 | 144 | 3569 | 9.24 | 4.62 | 9.24 | 4.62 | -8.54 | 72.1 | 0.00 |
| 4 | 98 | 3511 | -9693 | 233 | 2338 | 135 | 3003 | 9.24 | 4.62 | 9.24 | 4.62 | -7.18 | 60.6 | 0.00 |
| 5 | 98 | 3409 | -9428 | 230 | 2244 | 133 | 2810 | 9.24 | 4.62 | 9.24 | 4.62 | -6.72 | 56.7 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 3825 | -11119 | 242 | 2624 | 64 | 24 | 9.24 | 4.62 | 9.24 | 9.24 | -0.05 | 0.5 | 0.00 |
| 4 | 131 | 3511 | -10256 | 233 | 2338 | 59 | -269 | 9.24 | 4.62 | 9.24 | 9.24 | -0.62 | 5.3 | 0.00 |
| 5 | 131 | 3409 | -9974 | 230 | 2244 | 57 | -371 | 9.24 | 4.62 | 9.24 | 9.24 | -0.86 | 7.4 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 164 | 3825 | -11731 | 242 | 2624 | -15 | -3722 | 4.62 | 9.24 | 4.62 | 9.24 | -8.91 | 75.2 | 0.00 |
| 4 | 164 | 3511 | -10818 | 233 | 2338 | -17 | -3724 | 4.62 | 9.24 | 4.62 | 9.24 | -8.91 | 75.2 | 0.00 |
| 5 | 164 | 3409 | -10520 | 230 | 2244 | -18 | -3732 | 4.62 | 9.24 | 4.62 | 9.24 | -8.93 | 75.4 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 197 | 3825 | -12343 | 242 | 2624 | -95 | -7668 | 4.62 | 9.24 | 4.62 | 9.24 | -18.35 | 154.8 | 0.00 |
| 4 | 197 | 3511 | -11380 | 233 | 2338 | -94 | -7365 | 4.62 | 9.24 | 4.62 | 9.24 | -17.62 | 148.7 | 0.00 |
| 5 | 197 | 3409 | -11066 | 230 | 2244 | -93 | -7271 | 4.62 | 9.24 | 4.62 | 9.24 | -17.40 | 146.8 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 230 | 3825 | -12955 | 242 | 2624 | -174 | -11815 | 4.62 | 9.24 | 4.62 | 9.24 | -47.77 | 2074.7 | 0.10 |
| 4 | 230 | 3511 | -11943 | 233 | 2338 | -170 | -11189 | 4.62 | 9.24 | 4.62 | 9.24 | -45.24 | 1964.8 | 0.10 |
| 5 | 230 | 3409 | -11612 | 230 | 2244 | -168 | -10990 | 4.62 | 9.24 | 4.62 | 9.24 | -44.43 | 1929.8 | 0.09 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 262 | 3825 | -13566 | 242 | 2624 | -254 | -16163 | 4.62 | 9.24 | 4.62 | 9.24 | -65.34 | 2838.2 | 0.16 |
| 4 | 262 | 3511 | -12505 | 233 | 2338 | -246 | -15198 | 4.62 | 9.24 | 4.62 | 9.24 | -61.45 | 2668.8 | 0.15 |
| 5 | 262 | 3409 | -12158 | 230 | 2244 | -244 | -14888 | 4.62 | 9.24 | 4.62 | 9.24 | -60.19 | 2614.2 | 0.14 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 295 | 3825 | -14178 | 242 | 2624 | -333 | -20711 | 4.62 | 9.24 | 6.16 | 12.32 | -73.40 | 2748.7 | 0.14 |
| 4 | 295 | 3511 | -13068 | 233 | 2338 | -323 | -19392 | 4.62 | 9.24 | 6.16 | 12.32 | -68.73 | 2573.6 | 0.13 |
| 5 | 295 | 3409 | -12704 | 230 | 2244 | -319 | -18964 | 4.62 | 9.24 | 6.16 | 12.32 | -67.21 | 2516.8 | 0.13 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 328 | 3825 | -14790 | 242 | 2624 | -413 | -23242 | 4.62 | 9.24 | 7.70 | 13.85 | -76.92 | 2745.3 | 0.14 |
| 4 | 328 | 3511 | -13630 | 233 | 2338 | -399 | -21725 | 4.62 | 9.24 | 7.70 | 13.85 | -71.90 | 2566.2 | 0.13 |
| 5 | 328 | 3409 | -13250 | 230 | 2244 | -394 | -21233 | 4.62 | 9.24 | 7.70 | 13.85 | -70.27 | 2508.0 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 4.62 asup= 10.78 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 78** NI 15530 NF 15153 SEZ. Rp B= 25.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.4375 8.1900 7.1604 18.7879 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -4510 | -3882 | 62 | -491 | 31 | 20050 | 4.62 | 4.62 | 15.39 | 7.70 | -122.23 | 2817.3 | 0.12 |
| 4 | 0 | -3975 | -3385 | 56 | -447 | 28 | 17600 | 4.62 | 4.62 | 15.39 | 7.70 | -107.30 | 2473.0 | 0.10 |
| 5 | 0 | -3796 | -3220 | 54 | -433 | 27 | 16780 | 4.62 | 4.62 | 15.39 | 7.70 | -102.30 | 2357.8 | 0.10 |

apost= 1.54 aant= 1.54 ainf= 12.32 asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 47 | -4510 | -4761 | 62 | -491 | 1 | 18028 | 4.62 | 4.62 | 13.85 | 7.70 | -113.10 | 2800.3 | 0.12 |
| 4 | 47 | -3975 | -4164 | 56 | -447 | 2 | 15835 | 4.62 | 4.62 | 13.85 | 7.70 | -99.34 | 2459.6 | 0.10 |
| 5 | 47 | -3796 | -3965 | 54 | -433 | 2 | 15100 | 4.62 | 4.62 | 13.85 | 7.70 | -94.73 | 2345.5 | 0.10 |

apost= 1.54 aant= 1.54 ainf= 10.78 asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 94 | -4510 | -5640 | 62 | -491 | -28 | 15596 | 4.62 | 4.62 | 10.78 | 3.08 | -121.72 | 3139.6 | 0.14 |
| 4 | 94 | -3975 | -4942 | 56 | -447 | -24 | 13706 | 4.62 | 4.62 | 10.78 | 3.08 | -106.97 | 2759.1 | 0.12 |
| 5 | 94 | -3796 | -4710 | 54 | -433 | -23 | 13073 | 4.62 | 4.62 | 10.78 | 3.08 | -102.03 | 2631.6 | 0.12 |

apost= 1.54 aant= 1.54 ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 140 | -4510 | -6518 | 62 | -491 | -57 | 12752 | 4.62 | 4.62 | 9.24 | 3.08 | -104.45 | 2972.1 | 0.14 |
| 4 | 140 | -3975 | -5721 | 56 | -447 | -50 | 11213 | 4.62 | 4.62 | 9.24 | 3.08 | -91.84 | 2613.4 | 0.12 |
| 5 | 140 | -3796 | -5455 | 54 | -433 | -48 | 10696 | 4.62 | 4.62 | 9.24 | 3.08 | -87.61 | 2493.0 | 0.12 |

apost= 1.54 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

```
 3   187   -4510   -7397      62     -491     -86    9498     4.62   4.62   6.16   3.08    -88.95    3261.0    0.18
 4   187   -3975   -6499      56     -447     -76    8356     4.62   4.62   6.16   3.08    -78.26    2868.9    0.15
 5   187   -3796   -6200      54     -433     -73    7972     4.62   4.62   6.16   3.08    -74.66    2737.1    0.15

apost= 1.54 aant= 1.54 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   234   -4510   -8276      62     -491    -115    5832     4.62   4.62   4.62   3.08    -60.42    2640.7    0.15
 4   234   -3975   -7278      56     -447    -102    5135     4.62   4.62   4.62   3.08    -53.20    2324.9    0.13
 5   234   -3796   -6945      54     -433     -98    4899     4.62   4.62   4.62   3.08    -50.75    2218.2    0.12

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   281   -4510   -9155      62     -491    -145    1756     4.62   4.62   4.62   3.08    -10.79      89.5    0.00
 4   281   -3975   -8056      56     -447    -129    1550     4.62   4.62   4.62   3.08     -9.52      79.0    0.00
 5   281   -3796   -7690      54     -433    -123    1478     4.62   4.62   4.62   3.08     -9.08      75.3    0.00

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   327   -4510  -10034      62     -491    -174   -2732     4.62   4.62   3.08   4.62    -16.79     139.2    0.00
 4   327   -3975   -8835      56     -447    -155   -2399     4.62   4.62   3.08   4.62    -14.74     122.3    0.00
 5   327   -3796   -8435      54     -433    -148   -2292     4.62   4.62   3.08   4.62    -14.08     116.8    0.00

apost= 1.54 aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   374   -4510  -10912      62     -491    -203   -7630     4.62   4.62   3.08   4.62    -79.05    3454.8    0.21
 4   374   -3975   -9613      56     -447    -181   -6712     4.62   4.62   3.08   4.62    -69.54    3039.1    0.18
 5   374   -3796   -9180      54     -433    -173   -6409     4.62   4.62   3.08   4.62    -66.40    2902.0    0.17

apost= 1.54 aant= 1.54 ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   421   -4510  -11791      62     -491    -232  -12940     4.62   4.62   4.62   9.24   -100.56    2994.8    0.14
 4   421   -3975  -10391      56     -447    -207  -11389     4.62   4.62   4.62   9.24    -88.51    2636.0    0.12
 5   421   -3796   -9925      54     -433    -198  -10876     4.62   4.62   4.62   9.24    -84.52    2517.1    0.12

apost= 1.54 aant= 1.54 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   468   -4510  -12670      62     -491    -262  -18660     4.62   4.62   7.70  13.85   -117.06    2898.4    0.12
 4   468   -3975  -11170      56     -447    -233  -16430     4.62   4.62   7.70  13.85   -103.07    2552.0    0.11
 5   468   -3796  -10670      54     -433    -224  -15690     4.62   4.62   7.70  13.85    -98.43    2437.0    0.10

apost= 1.54 aant= 1.54 ainf= 4.62 asup= 10.78  ( e armatura base = 4 X 1.54 )

ASTA NUM. 80     NI 15204    NF 15531    SEZ.  Rp  B= 25.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.4375   8.1900     7.1604  18.7879  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
      --     ---------------------     ------------------   ----------------------------      --------------     --
      cm              kg                       kg*m                        cm²                      kg/cm²        mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -4279   12380     125      291     420  -17200     4.62   3.08   6.16  12.32   -116.76    3006.8    0.13
 4     0   -3763   10930     110      260     368  -15220     4.62   3.08   6.16  12.32   -103.32    2660.7    0.11
 5     0   -3590   10450     105      249     350  -14560     4.62   3.08   6.16  12.32    -98.84    2545.3    0.11

apost= 1.54 aant= --      ainf= 3.08 asup= 9.24  ( e armatura base = 4 X 1.54 )

 3    47   -4279   11502     125      291     362  -11614     4.62   3.08   4.62   7.70    -95.63    3200.0    0.16
 4    47   -3763   10152     110      260     316  -10290     4.62   3.08   4.62   7.70    -84.73    2835.3    0.14
 5    47   -3590    9705     105      249     301   -9849     4.62   3.08   4.62   7.70    -81.10    2713.6    0.13

apost= 1.54 aant= --      ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

 3    94   -4279   10623     125      291     303   -6438     4.62   3.08   3.08   4.62    -66.70    2915.1    0.17
 4    94   -3763    9374     110      260     265   -5724     4.62   3.08   3.08   4.62    -59.30    2591.8    0.15
 5    94   -3590    8960     105      249     252   -5485     4.62   3.08   3.08   4.62    -56.83    2483.7    0.14

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   140   -4279    9745     125      291     244   -1674     4.62   3.08   3.08   4.62    -10.29      85.3    0.00
 4   140   -3763    8595     110      260     214   -1522     4.62   3.08   3.08   4.62     -9.35      77.6    0.00
 5   140   -3590    8214     105      249     204   -1471     4.62   3.08   3.08   4.62     -9.04      75.0    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   187   -4279    8866     125      291     186    2680     4.62   3.08   4.62   3.08    -16.47     136.6    0.00
 4   187   -3763    7817     110      260     162    2316     4.62   3.08   4.62   3.08    -14.23     118.0    0.00
 5   187   -3590    7469     105      249     155    2196     4.62   3.08   4.62   3.08    -13.49     111.9    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   234   -4279    7988     125      291     127    6622     4.62   3.08   4.62   3.08    -68.60    2998.4    0.18
 4   234   -3763    7039     110      260     111    5790     4.62   3.08   4.62   3.08    -59.98    2621.5    0.15
 5   234   -3590    6724     105      249     106    5514     4.62   3.08   4.62   3.08    -57.12    2496.6    0.14

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   281   -4279    7110     125      291      69   10154     4.62   3.08   7.70   3.08    -88.22    2815.8    0.14
 4   281   -3763    6261     110      260      60    8900     4.62   3.08   7.70   3.08    -77.33    2468.1    0.12
```

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 281 | -3590 | 5979 | 105 | 249 | 57 | 8484 | 4.62 | 3.08 | 7.70 | 3.08 | -73.71 | 2352.7 | 0.11 |

apost= 1.54 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | -4279 | 6231 | 125 | 291 | 10 | 13274 | 4.62 | 3.08 | 9.24 | 3.08 | -108.72 | 3093.8 | 0.15 |
| 4 | 327 | -3763 | 5483 | 110 | 260 | 8 | 11646 | 4.62 | 3.08 | 9.24 | 3.08 | -95.39 | 2714.3 | 0.13 |
| 5 | 327 | -3590 | 5234 | 105 | 249 | 8 | 11105 | 4.62 | 3.08 | 9.24 | 3.08 | -90.96 | 2588.3 | 0.12 |

apost= 1.54 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 374 | -4279 | 5353 | 125 | 291 | -49 | 15984 | 3.08 | 4.62 | 12.32 | 3.08 | -119.79 | 2835.2 | 0.12 |
| 4 | 374 | -3763 | 4704 | 110 | 260 | -43 | 14028 | 3.08 | 4.62 | 12.32 | 3.08 | -105.13 | 2488.3 | 0.11 |
| 5 | 374 | -3590 | 4488 | 105 | 249 | -41 | 13379 | 3.08 | 4.62 | 12.32 | 3.08 | -100.27 | 2373.1 | 0.10 |

apost= -- aant= 1.54 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 421 | -4279 | 4474 | 125 | 291 | -107 | 18282 | 3.08 | 4.62 | 13.85 | 7.70 | -114.69 | 2839.7 | 0.12 |
| 4 | 421 | -3763 | 3926 | 110 | 260 | -94 | 16046 | 3.08 | 4.62 | 13.85 | 7.70 | -100.66 | 2492.3 | 0.10 |
| 5 | 421 | -3590 | 3743 | 105 | 249 | -90 | 15303 | 3.08 | 4.62 | 13.85 | 7.70 | -96.00 | 2377.0 | 0.10 |

apost= -- aant= 1.54 ainf= 10.78 asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 468 | -4279 | 3596 | 125 | 291 | -166 | 20170 | 3.08 | 4.62 | 15.39 | 7.70 | -122.96 | 2834.1 | 0.12 |
| 4 | 468 | -3763 | 3148 | 110 | 260 | -146 | 17700 | 3.08 | 4.62 | 15.39 | 7.70 | -107.91 | 2487.1 | 0.10 |
| 5 | 468 | -3590 | 2998 | 105 | 249 | -139 | 16880 | 3.08 | 4.62 | 15.39 | 7.70 | -102.91 | 2371.9 | 0.10 |

apost= -- aant= 1.54 ainf= 12.32 asup= 4.62 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 99** NI 15521 NF 15513 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 11.1110 5.0184 20.9419 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 126 | 12720 | -287 | 127 | -320 | -17882 | 3.08 | 6.16 | 7.70 | 13.85 | -94.43 | 2757.9 | 0.13 |
| 4 | 0 | 22 | 11980 | -271 | 118 | -303 | -17313 | 3.08 | 6.16 | 7.70 | 13.85 | -91.43 | 2670.1 | 0.13 |
| 5 | 0 | -13 | 11730 | -266 | 116 | -297 | -17111 | 3.08 | 6.16 | 7.70 | 13.85 | -90.36 | 2638.9 | 0.12 |

apost= -- aant= 3.08 ainf= 4.62 asup= 10.78 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | 126 | 12035 | -287 | 127 | -226 | -15746 | 3.08 | 6.16 | 6.16 | 12.32 | -89.41 | 2729.9 | 0.13 |
| 4 | 33 | 22 | 11345 | -271 | 118 | -214 | -15298 | 3.08 | 6.16 | 6.16 | 12.32 | -86.87 | 2652.1 | 0.13 |
| 5 | 33 | -13 | 11111 | -266 | 116 | -210 | -15137 | 3.08 | 6.16 | 6.16 | 12.32 | -85.95 | 2624.2 | 0.13 |

apost= -- aant= 3.08 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 126 | 11351 | -287 | 127 | -132 | -11927 | 3.08 | 6.16 | 4.62 | 9.24 | -77.31 | 2735.3 | 0.15 |
| 4 | 65 | 22 | 10710 | -271 | 118 | -125 | -11694 | 3.08 | 6.16 | 4.62 | 9.24 | -75.80 | 2681.9 | 0.14 |
| 5 | 65 | -13 | 10493 | -266 | 116 | -123 | -11606 | 3.08 | 6.16 | 4.62 | 9.24 | -75.23 | 2661.7 | 0.14 |

apost= -- aant= 3.08 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | 126 | 10666 | -287 | 127 | -39 | -8330 | 3.08 | 6.16 | 3.08 | 6.16 | -64.94 | 2832.9 | 0.18 |
| 4 | 98 | 22 | 10074 | -271 | 118 | -37 | -8297 | 3.08 | 6.16 | 3.08 | 6.16 | -64.68 | 2821.6 | 0.17 |
| 5 | 98 | -13 | 9874 | -266 | 116 | -36 | -8277 | 3.08 | 6.16 | 3.08 | 6.16 | -64.52 | 2814.7 | 0.17 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | 126 | 9981 | -287 | 127 | 55 | -4958 | 6.16 | 3.08 | 3.08 | 6.16 | -38.65 | 1686.0 | 0.08 |
| 4 | 131 | 22 | 9439 | -271 | 118 | 52 | -5108 | 6.16 | 3.08 | 3.08 | 6.16 | -39.82 | 1737.1 | 0.08 |
| 5 | 131 | -13 | 9256 | -266 | 116 | 51 | -5150 | 6.16 | 3.08 | 3.08 | 6.16 | -40.15 | 1751.5 | 0.09 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | 126 | 9296 | -287 | 127 | 149 | -1809 | 6.16 | 3.08 | 3.08 | 6.16 | -8.06 | 66.5 | 0.00 |
| 4 | 163 | 22 | 8804 | -271 | 118 | 141 | -2127 | 6.16 | 3.08 | 3.08 | 6.16 | -9.48 | 78.2 | 0.00 |
| 5 | 163 | -13 | 8637 | -266 | 116 | 138 | -2226 | 6.16 | 3.08 | 3.08 | 6.16 | -9.92 | 81.8 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | 126 | 8612 | -287 | 127 | 242 | 1116 | 6.16 | 3.08 | 6.16 | 3.08 | -4.97 | 41.0 | 0.00 |
| 4 | 196 | 22 | 8169 | -271 | 118 | 229 | 647 | 6.16 | 3.08 | 6.16 | 3.08 | -2.89 | 23.8 | 0.00 |
| 5 | 196 | -13 | 8018 | -266 | 116 | 225 | 496 | 6.16 | 3.08 | 6.16 | 3.08 | -2.21 | 18.2 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 229 | 126 | 7927 | -287 | 127 | 336 | 3818 | 6.16 | 3.08 | 6.16 | 3.08 | -17.02 | 140.3 | 0.00 |
| 4 | 229 | 22 | 7534 | -271 | 118 | 318 | 3214 | 6.16 | 3.08 | 6.16 | 3.08 | -14.32 | 118.1 | 0.00 |
| 5 | 229 | -13 | 7400 | -266 | 116 | 312 | 3016 | 6.16 | 3.08 | 6.16 | 3.08 | -13.44 | 110.8 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | 126 | 7242 | -287 | 127 | 430 | 6295 | 6.16 | 3.08 | 6.16 | 3.08 | -49.08 | 2140.9 | 0.12 |
| 4 | 261 | 22 | 6898 | -271 | 118 | 407 | 5572 | 6.16 | 3.08 | 6.16 | 3.08 | -43.44 | 1895.0 | 0.10 |
| 5 | 261 | -13 | 6781 | -266 | 116 | 399 | 5333 | 6.16 | 3.08 | 6.16 | 3.08 | -41.58 | 1813.7 | 0.09 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | 126 | 6558 | -287 | 127 | 523 | 8550 | 6.16 | 3.08 | 6.16 | 3.08 | -66.65 | 2907.4 | 0.18 |
| 4 | 294 | 22 | 6263 | -271 | 118 | 495 | 7723 | 6.16 | 3.08 | 6.16 | 3.08 | -60.21 | 2626.5 | 0.16 |
| 5 | 294 | -13 | 6163 | -266 | 116 | 486 | 7449 | 6.16 | 3.08 | 6.16 | 3.08 | -58.07 | 2533.1 | 0.15 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 327 | 126 | 5873 | -287 | 127 | 617 | 10580 | 6.16 | 3.08 | 7.70 | 3.08 | -76.12 | 2903.4 | 0.17 |
| 4 | 327 | 22 | 5628 | -271 | 118 | 584 | 9667 | 6.16 | 3.08 | 7.70 | 3.08 | -69.55 | 2652.8 | 0.15 |
| 5 | 327 | -13 | 5544 | -266 | 116 | 573 | 9362 | 6.16 | 3.08 | 7.70 | 3.08 | -67.35 | 2569.1 | 0.15 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 98** NI 15513 NF 14914 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 12.0595 5.4468 22.3188 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -148 | -2976 | 550 | -66 | 971 | 10740 | 6.16 | 3.08 | 7.70 | 3.08 | -77.27 | 2947.3 | 0.17 |
| 4 | 0 | -235 | -2507 | 532 | -72 | 934 | 9793 | 6.16 | 3.08 | 7.70 | 3.08 | -70.45 | 2687.4 | 0.15 |
| 5 | 0 | -265 | -2353 | 526 | -74 | 922 | 9480 | 6.16 | 3.08 | 7.70 | 3.08 | -68.20 | 2601.5 | 0.15 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -148 | -3768 | 550 | -66 | 776 | 9542 | 6.16 | 3.08 | 7.70 | 3.08 | -68.65 | 2618.6 | 0.15 |
| 4 | 36 | -235 | -3241 | 532 | -72 | 745 | 8772 | 6.16 | 3.08 | 7.70 | 3.08 | -63.11 | 2407.2 | 0.13 |
| 5 | 36 | -265 | -3068 | 526 | -74 | 735 | 8518 | 6.16 | 3.08 | 7.70 | 3.08 | -61.28 | 2337.4 | 0.13 |

apost= 3.08 aant= -- ainf= 4.62 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | -148 | -4561 | 550 | -66 | 580 | 8063 | 6.16 | 3.08 | 6.16 | 3.08 | -62.86 | 2742.0 | 0.17 |
| 4 | 71 | -235 | -3976 | 532 | -72 | 556 | 7491 | 6.16 | 3.08 | 6.16 | 3.08 | -58.39 | 2547.3 | 0.15 |
| 5 | 71 | -265 | -3783 | 526 | -74 | 548 | 7301 | 6.16 | 3.08 | 6.16 | 3.08 | -56.92 | 2482.9 | 0.15 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | -148 | -5353 | 550 | -66 | 385 | 6302 | 6.16 | 3.08 | 6.16 | 3.08 | -49.13 | 2143.2 | 0.12 |
| 4 | 107 | -235 | -4710 | 532 | -72 | 367 | 5948 | 6.16 | 3.08 | 6.16 | 3.08 | -46.37 | 2022.8 | 0.11 |
| 5 | 107 | -265 | -4498 | 526 | -74 | 361 | 5831 | 6.16 | 3.08 | 6.16 | 3.08 | -45.46 | 1982.9 | 0.11 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | -148 | -6146 | 550 | -66 | 189 | 4260 | 6.16 | 3.08 | 6.16 | 3.08 | -18.99 | 156.6 | 0.00 |
| 4 | 142 | -235 | -5445 | 532 | -72 | 178 | 4145 | 6.16 | 3.08 | 6.16 | 3.08 | -18.48 | 152.3 | 0.00 |
| 5 | 142 | -265 | -5213 | 526 | -74 | 175 | 4107 | 6.16 | 3.08 | 6.16 | 3.08 | -18.31 | 150.9 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | -148 | -6938 | 550 | -66 | -6 | 1937 | 6.16 | 3.08 | 6.16 | 3.08 | -8.63 | 71.2 | 0.00 |
| 4 | 178 | -235 | -6179 | 532 | -72 | -11 | 2081 | 6.16 | 3.08 | 6.16 | 3.08 | -9.28 | 76.5 | 0.00 |
| 5 | 178 | -265 | -5929 | 526 | -74 | -12 | 2129 | 6.16 | 3.08 | 6.16 | 3.08 | -9.49 | 78.2 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | -148 | -7730 | 550 | -66 | -201 | -668 | 3.08 | 6.16 | 3.08 | 6.16 | -2.98 | 24.5 | 0.00 |
| 4 | 213 | -235 | -6913 | 532 | -72 | -199 | -244 | 3.08 | 6.16 | 3.08 | 6.16 | -1.09 | 9.0 | 0.00 |
| 5 | 213 | -265 | -6644 | 526 | -74 | -199 | -103 | 3.08 | 6.16 | 3.08 | 6.16 | -0.46 | 3.8 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | -148 | -8523 | 550 | -66 | -397 | -3554 | 3.08 | 6.16 | 3.08 | 6.16 | -15.84 | 130.6 | 0.00 |
| 4 | 249 | -235 | -7648 | 532 | -72 | -388 | -2829 | 3.08 | 6.16 | 3.08 | 6.16 | -12.61 | 104.0 | 0.00 |
| 5 | 249 | -265 | -7359 | 526 | -74 | -386 | -2589 | 3.08 | 6.16 | 3.08 | 6.16 | -11.54 | 95.1 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | -148 | -9315 | 550 | -66 | -592 | -6721 | 3.08 | 6.16 | 3.08 | 6.16 | -52.39 | 2285.6 | 0.13 |
| 4 | 284 | -235 | -8382 | 532 | -72 | -577 | -5675 | 3.08 | 6.16 | 3.08 | 6.16 | -44.24 | 1930.0 | 0.10 |
| 5 | 284 | -265 | -8074 | 526 | -74 | -573 | -5329 | 3.08 | 6.16 | 3.08 | 6.16 | -41.54 | 1812.2 | 0.09 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | -148 | -10108 | 550 | -66 | -788 | -10170 | 3.08 | 6.16 | 4.62 | 7.70 | -70.17 | 2778.5 | 0.16 |
| 4 | 320 | -235 | -9117 | 532 | -72 | -766 | -8782 | 3.08 | 6.16 | 4.62 | 7.70 | -60.60 | 2399.4 | 0.13 |
| 5 | 320 | -265 | -8789 | 526 | -74 | -760 | -8322 | 3.08 | 6.16 | 4.62 | 7.70 | -57.43 | 2273.8 | 0.12 |

apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | -148 | -10900 | 550 | -66 | -983 | -13900 | 3.08 | 6.16 | 6.16 | 10.78 | -82.37 | 2738.0 | 0.14 |
| 4 | 355 | -235 | -9851 | 532 | -72 | -955 | -12150 | 3.08 | 6.16 | 6.16 | 10.78 | -72.00 | 2393.3 | 0.12 |
| 5 | 355 | -265 | -9504 | 526 | -74 | -946 | -11570 | 3.08 | 6.16 | 6.16 | 10.78 | -68.56 | 2279.1 | 0.11 |

apost= -- aant= 3.08 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 100** NI 15502 NF 16248 SEZ. Rp B= 30.0 H= 40.0 (trave)

# Verifiche della sicurezza in condizioni di Progetto – Verifica delle travi 3° P SLE

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.0000 6.1200 16.1200 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | cm$^2$ | | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -6427 | 2801 | 168 | -294 | 240 | -1286 | 4.62 | 3.08 | 3.08 | 4.62 | -12.41 | 98.3 | 0.00 |
| 4 | 0 | -6110 | 2604 | 161 | -309 | 232 | -1305 | 4.62 | 3.08 | 3.08 | 4.62 | -12.60 | 99.7 | 0.00 |
| 5 | 0 | -6006 | 2537 | 158 | -313 | 228 | -1308 | 4.62 | 3.08 | 3.08 | 4.62 | -12.62 | 99.9 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 41 | -6427 | 2142 | 168 | -294 | 172 | -276 | 4.62 | 3.08 | 3.08 | 4.62 | -2.66 | 21.1 | 0.00 |
| 4 | 41 | -6110 | 2020 | 161 | -309 | 166 | -360 | 4.62 | 3.08 | 3.08 | 4.62 | -3.47 | 27.5 | 0.00 |
| 5 | 41 | -6006 | 1978 | 158 | -313 | 164 | -386 | 4.62 | 3.08 | 3.08 | 4.62 | -3.72 | 29.5 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 82 | -6427 | 1484 | 168 | -294 | 103 | 465 | 4.62 | 3.08 | 4.62 | 3.08 | -4.48 | 35.5 | 0.00 |
| 4 | 82 | -6110 | 1437 | 161 | -309 | 100 | 347 | 4.62 | 3.08 | 4.62 | 3.08 | -3.35 | 26.5 | 0.00 |
| 5 | 82 | -6006 | 1420 | 158 | -313 | 99 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | -2.98 | 23.6 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 123 | -6427 | 825 | 168 | -294 | 34 | 936 | 4.62 | 3.08 | 4.62 | 3.08 | -9.04 | 71.5 | 0.00 |
| 4 | 123 | -6110 | 853 | 161 | -309 | 35 | 815 | 4.62 | 3.08 | 4.62 | 3.08 | -7.86 | 62.2 | 0.00 |
| 5 | 123 | -6006 | 861 | 158 | -313 | 35 | 774 | 4.62 | 3.08 | 4.62 | 3.08 | -7.47 | 59.2 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 163 | -6427 | 166 | 168 | -294 | -34 | 1139 | 3.08 | 4.62 | 4.62 | 3.08 | -10.99 | 87.0 | 0.00 |
| 4 | 163 | -6110 | 269 | 161 | -309 | -31 | 1044 | 3.08 | 4.62 | 4.62 | 3.08 | -10.08 | 79.8 | 0.00 |
| 5 | 163 | -6006 | 302 | 158 | -313 | -30 | 1012 | 3.08 | 4.62 | 4.62 | 3.08 | -9.76 | 77.3 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 204 | -6427 | -493 | 168 | -294 | -103 | 1072 | 3.08 | 4.62 | 4.62 | 3.08 | -10.34 | 81.9 | 0.00 |
| 4 | 204 | -6110 | -315 | 161 | -309 | -97 | 1035 | 3.08 | 4.62 | 4.62 | 3.08 | -9.99 | 79.1 | 0.00 |
| 5 | 204 | -6006 | -256 | 158 | -313 | -95 | 1021 | 3.08 | 4.62 | 4.62 | 3.08 | -9.85 | 78.0 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 245 | -6427 | -1151 | 168 | -294 | -172 | 736 | 3.08 | 4.62 | 4.62 | 3.08 | -7.10 | 56.2 | 0.00 |
| 4 | 245 | -6110 | -898 | 161 | -309 | -162 | 787 | 3.08 | 4.62 | 4.62 | 3.08 | -7.60 | 60.2 | 0.00 |
| 5 | 245 | -6006 | -815 | 158 | -313 | -159 | 802 | 3.08 | 4.62 | 4.62 | 3.08 | -7.74 | 61.2 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 286 | -6427 | -1810 | 168 | -294 | -240 | 131 | 3.08 | 4.62 | 4.62 | 3.08 | -1.26 | 10.0 | 0.00 |
| 4 | 286 | -6110 | -1482 | 161 | -309 | -228 | 301 | 3.08 | 4.62 | 4.62 | 3.08 | -2.91 | 23.0 | 0.00 |
| 5 | 286 | -6006 | -1374 | 158 | -313 | -224 | 354 | 3.08 | 4.62 | 4.62 | 3.08 | -3.42 | 27.1 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 327 | -6427 | -2469 | 168 | -294 | -309 | -744 | 3.08 | 4.62 | 3.08 | 4.62 | -7.18 | 56.8 | 0.00 |
| 4 | 327 | -6110 | -2066 | 161 | -309 | -294 | -423 | 3.08 | 4.62 | 3.08 | 4.62 | -4.08 | 32.3 | 0.00 |
| 5 | 327 | -6006 | -1933 | 158 | -313 | -288 | -322 | 3.08 | 4.62 | 3.08 | 4.62 | -3.10 | 24.6 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 368 | -6427 | -3127 | 168 | -294 | -377 | -1887 | 3.08 | 4.62 | 3.08 | 4.62 | -18.22 | 144.2 | 0.00 |
| 4 | 368 | -6110 | -2649 | 161 | -309 | -360 | -1386 | 3.08 | 4.62 | 3.08 | 4.62 | -13.38 | 105.9 | 0.00 |
| 5 | 368 | -6006 | -2491 | 158 | -313 | -353 | -1226 | 3.08 | 4.62 | 3.08 | 4.62 | -11.83 | 93.6 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 409 | -6427 | -3786 | 168 | -294 | -446 | -3300 | 3.08 | 4.62 | 3.08 | 4.62 | -53.18 | 2120.7 | 0.13 |
| 4 | 409 | -6110 | -3233 | 161 | -309 | -425 | -2588 | 3.08 | 4.62 | 3.08 | 4.62 | -41.70 | 1663.2 | 0.09 |
| 5 | 409 | -6006 | -3050 | 158 | -313 | -418 | -2358 | 3.08 | 4.62 | 3.08 | 4.62 | -38.00 | 1515.4 | 0.08 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **54** Tabella: **Travi scala**
Descrizione: **Travi scala 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 19** NI 17513 NF 17581 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -0 | 5352 | 364 | 0 | 218 | -2758 | 3.08 | 3.08 | 3.08 | 4.62 | -115.16 | 3355.4 | 0.19 |
| 4 | 0 | -0 | 4780 | 325 | 0 | 195 | -2498 | 3.08 | 3.08 | 3.08 | 4.62 | -104.31 | 3039.1 | 0.17 |
| 5 | 0 | -0 | 4589 | 312 | 0 | 187 | -2412 | 3.08 | 3.08 | 3.08 | 4.62 | -100.72 | 2934.4 | 0.17 |
| apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 10 | -0 | 5151 | 364 | 0 | 182 | -2238 | 3.08 | 3.08 | 3.08 | 4.62 | -93.46 | 2722.9 | 0.16 |
| 4 | 10 | -0 | 4603 | 325 | 0 | 163 | -2034 | 3.08 | 3.08 | 3.08 | 3.08 | -97.32 | 3655.0 | 0.26 |
| 5 | 10 | -0 | 4420 | 312 | 0 | 156 | -1966 | 3.08 | 3.08 | 3.08 | 3.08 | -94.09 | 3533.5 | 0.25 |
| apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 20 | -0 | 4950 | 364 | 0 | 146 | -1738 | 3.08 | 3.08 | 3.08 | 3.08 | -83.18 | 3124.0 | 0.22 |
| 4 | 20 | -0 | 4426 | 325 | 0 | 130 | -1587 | 3.08 | 3.08 | 3.08 | 3.08 | -75.94 | 2851.8 | 0.20 |
| 5 | 20 | -0 | 4251 | 312 | 0 | 125 | -1537 | 3.08 | 3.08 | 3.08 | 3.08 | -73.54 | 2762.0 | 0.19 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 30 | -0 | 4749 | 364 | 0 | 110 | -1258 | 3.08 | 3.08 | 3.08 | 3.08 | -60.21 | 2261.1 | 0.15 |
| 4 | 30 | -0 | 4249 | 325 | 0 | 98 | -1157 | 3.08 | 3.08 | 3.08 | 3.08 | -55.39 | 2080.1 | 0.13 |
| 5 | 30 | -0 | 4083 | 312 | 0 | 94 | -1124 | 3.08 | 3.08 | 3.08 | 3.08 | -53.80 | 2020.5 | 0.13 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 40 | -0 | 4548 | 364 | 0 | 74 | -798 | 3.08 | 3.08 | 3.08 | 3.08 | -38.19 | 1434.1 | 0.08 |
| 4 | 40 | -0 | 4072 | 325 | 0 | 66 | -746 | 3.08 | 3.08 | 3.08 | 3.08 | -35.68 | 1339.9 | 0.07 |
| 5 | 40 | -0 | 3914 | 312 | 0 | 64 | -728 | 3.08 | 3.08 | 3.08 | 3.08 | -34.85 | 1309.0 | 0.07 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 50 | -0 | 4347 | 364 | 0 | 38 | -358 | 3.08 | 3.08 | 3.08 | 3.08 | -10.99 | 85.2 | 0.00 |
| 4 | 50 | -0 | 3896 | 325 | 0 | 34 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | -10.79 | 83.6 | 0.00 |
| 5 | 50 | -0 | 3745 | 312 | 0 | 33 | -349 | 3.08 | 3.08 | 3.08 | 3.08 | -10.73 | 83.1 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 59 | -0 | 4145 | 364 | 0 | 2 | 63 | 3.08 | 3.08 | 3.08 | 3.08 | -1.93 | 14.9 | 0.00 |
| 4 | 59 | -0 | 3719 | 325 | 0 | 2 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | -0.79 | 6.1 | 0.00 |
| 5 | 59 | -0 | 3576 | 312 | 0 | 2 | 13 | 3.08 | 3.08 | 3.08 | 3.08 | -0.41 | 3.2 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 69 | -0 | 3944 | 364 | 0 | -35 | 463 | 3.08 | 3.08 | 3.08 | 3.08 | -14.23 | 110.3 | 0.00 |
| 4 | 69 | -0 | 3542 | 325 | 0 | -30 | 385 | 3.08 | 3.08 | 3.08 | 3.08 | -11.83 | 91.7 | 0.00 |
| 5 | 69 | -0 | 3407 | 312 | 0 | -29 | 359 | 3.08 | 3.08 | 3.08 | 3.08 | -11.03 | 85.5 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 79 | -0 | 3743 | 364 | 0 | -71 | 844 | 3.08 | 3.08 | 3.08 | 3.08 | -40.37 | 1516.3 | 0.09 |
| 4 | 79 | -0 | 3365 | 325 | 0 | -63 | 727 | 3.08 | 3.08 | 3.08 | 3.08 | -34.78 | 1306.4 | 0.07 |
| 5 | 79 | -0 | 3239 | 312 | 0 | -60 | 688 | 3.08 | 3.08 | 3.08 | 3.08 | -32.93 | 1236.6 | 0.06 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 89 | -0 | 3542 | 364 | 0 | -107 | 1204 | 3.08 | 3.08 | 3.08 | 3.08 | -57.63 | 2164.4 | 0.14 |
| 4 | 89 | -0 | 3188 | 325 | 0 | -95 | 1051 | 3.08 | 3.08 | 3.08 | 3.08 | -50.31 | 1889.3 | 0.12 |
| 5 | 89 | -0 | 3070 | 312 | 0 | -91 | 1000 | 3.08 | 3.08 | 3.08 | 3.08 | -47.87 | 1798.0 | 0.11 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 99 | -0 | 3341 | 364 | 0 | -143 | 1545 | 3.08 | 3.08 | 3.08 | 3.08 | -73.94 | 2776.8 | 0.19 |
| 4 | 99 | -0 | 3011 | 325 | 0 | -127 | 1358 | 3.08 | 3.08 | 3.08 | 3.08 | -64.99 | 2440.7 | 0.16 |
| 5 | 99 | -0 | 2901 | 312 | 0 | -122 | 1296 | 3.08 | 3.08 | 3.08 | 3.08 | -62.02 | 2329.3 | 0.15 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 20** NI 17581 NF 17521 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -0 | 596 | 14 | 0 | -11 | 1193 | 3.08 | 3.08 | 3.08 | 3.08 | -57.09 | 2144.2 | 0.14 |
| 4 | 0 | -0 | 565 | 13 | 0 | -10 | 1026 | 3.08 | 3.08 | 3.08 | 3.08 | -49.10 | 1844.0 | 0.11 |
| 5 | 0 | -0 | 555 | 13 | 0 | -9 | 970 | 3.08 | 3.08 | 3.08 | 3.08 | -46.44 | 1743.9 | 0.11 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 21 | -0 | 180 | 14 | 0 | -14 | 1272 | 3.08 | 3.08 | 3.08 | 3.08 | -60.90 | 2287.0 | 0.15 |
| 4 | 21 | -0 | 199 | 13 | 0 | -12 | 1104 | 3.08 | 3.08 | 3.08 | 3.08 | -52.85 | 1984.7 | 0.13 |
| 5 | 21 | -0 | 206 | 13 | 0 | -12 | 1048 | 3.08 | 3.08 | 3.08 | 3.08 | -50.16 | 1884.0 | 0.12 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 41 | -0 | -237 | 14 | 0 | -17 | 1267 | 3.08 | 3.08 | 3.08 | 3.08 | -60.62 | 2276.5 | 0.15 |
| 4 | 41 | -0 | -167 | 13 | 0 | -15 | 1108 | 3.08 | 3.08 | 3.08 | 3.08 | -53.00 | 1990.5 | 0.13 |
| 5 | 41 | -0 | -144 | 13 | 0 | -14 | 1055 | 3.08 | 3.08 | 3.08 | 3.08 | -50.47 | 1895.3 | 0.12 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 62 | -0 | -653 | 14 | 0 | -20 | 1175 | 3.08 | 3.08 | 3.08 | 3.08 | -56.25 | 2112.5 | 0.14 |
| 4 | 62 | -0 | -533 | 13 | 0 | -18 | 1036 | 3.08 | 3.08 | 3.08 | 3.08 | -49.56 | 1861.4 | 0.12 |
| 5 | 62 | -0 | -493 | 13 | 0 | -17 | 989 | 3.08 | 3.08 | 3.08 | 3.08 | -47.34 | 1777.9 | 0.11 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 82 | -0 | -1070 | 14 | 0 | -23 | 999 | 3.08 | 3.08 | 3.08 | 3.08 | -47.80 | 1795.2 | 0.11 |
| 4 | 82 | -0 | -900 | 13 | 0 | -21 | 889 | 3.08 | 3.08 | 3.08 | 3.08 | -42.53 | 1597.4 | 0.09 |
| 5 | 82 | -0 | -843 | 13 | 0 | -20 | 852 | 3.08 | 3.08 | 3.08 | 3.08 | -40.78 | 1531.7 | 0.09 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 103 | -0 | -1486 | 14 | 0 | -26 | 737 | 3.08 | 3.08 | 3.08 | 3.08 | -35.27 | 1324.4 | 0.07 |
| 4 | 103 | -0 | -1266 | 13 | 0 | -23 | 667 | 3.08 | 3.08 | 3.08 | 3.08 | -31.91 | 1198.5 | 0.06 |
| 5 | 103 | -0 | -1192 | 13 | 0 | -23 | 644 | 3.08 | 3.08 | 3.08 | 3.08 | -30.80 | 1156.7 | 0.05 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 123 | -0 | -1902 | 14 | 0 | -29 | 390 | 3.08 | 3.08 | 3.08 | 3.08 | -11.97 | 92.8 | 0.00 |
| 4 | 123 | -0 | -1632 | 13 | 0 | -26 | 370 | 3.08 | 3.08 | 3.08 | 3.08 | -11.36 | 88.1 | 0.00 |
| 5 | 123 | -0 | -1541 | 13 | 0 | -25 | 363 | 3.08 | 3.08 | 3.08 | 3.08 | -11.17 | 86.5 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 144 | -0 | -2319 | 14 | 0 | -32 | -43 | 3.08 | 3.08 | 3.08 | 3.08 | -1.32 | 10.2 | 0.00 |
| 4 | 144 | -0 | -1998 | 13 | 0 | -29 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | -0.07 | 0.6 | 0.00 |
| 5 | 144 | -0 | -1891 | 13 | 0 | -28 | 11 | 3.08 | 3.08 | 3.08 | 3.08 | -0.35 | 2.7 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 164 | -0 | -2735 | 14 | 0 | -35 | -561 | 3.08 | 3.08 | 3.08 | 3.08 | -17.24 | 133.6 | 0.00 |
| 4 | 164 | -0 | -2365 | 13 | 0 | -32 | -449 | 3.08 | 3.08 | 3.08 | 3.08 | -13.81 | 107.0 | 0.00 |
| 5 | 164 | -0 | -2240 | 13 | 0 | -31 | -412 | 3.08 | 3.08 | 3.08 | 3.08 | -12.66 | 98.1 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 185 | -0 | -3152 | 14 | 0 | -38 | -1164 | 3.08 | 3.08 | 3.08 | 3.08 | -55.72 | 2092.6 | 0.13 |
| 4 | 185 | -0 | -2731 | 13 | 0 | -34 | -972 | 3.08 | 3.08 | 3.08 | 3.08 | -46.50 | 1746.4 | 0.11 |
| 5 | 185 | -0 | -2590 | 13 | 0 | -33 | -907 | 3.08 | 3.08 | 3.08 | 3.08 | -43.42 | 1630.5 | 0.10 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 205 | -0 | -3568 | 14 | 0 | -41 | -1853 | 3.08 | 3.08 | 3.08 | 4.62 | -77.37 | 2254.4 | 0.13 |
| 4 | 205 | -0 | -3097 | 13 | 0 | -37 | -1569 | 3.08 | 3.08 | 3.08 | 4.62 | -65.52 | 1908.8 | 0.10 |
| 5 | 205 | -0 | -2939 | 13 | 0 | -36 | -1474 | 3.08 | 3.08 | 3.08 | 4.62 | -61.55 | 1793.3 | 0.10 |
| apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 21**  NI 17581  NF 17526  SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 16.5625 15.3000 33.5125 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -0 | 2745 | -112 | 0 | -131 | -378 | 3.08 | 3.08 | 3.08 | 3.08 | -11.62 | 90.1 | 0.00 |
| 4 | 0 | -0 | 2446 | -100 | 0 | -117 | -383 | 3.08 | 3.08 | 3.08 | 3.08 | -11.75 | 91.1 | 0.00 |
| 5 | 0 | -0 | 2346 | -96 | 0 | -113 | -384 | 3.08 | 3.08 | 3.08 | 3.08 | -11.79 | 91.4 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 19 | -0 | 2108 | -112 | 0 | -110 | 83 | 3.08 | 3.08 | 3.08 | 3.08 | -2.56 | 19.8 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 19 | -0 | 1896 | -100 | 0 | -98 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | -0.93 | 7.2 | 0.00 |
| 5 | 19 | -0 | 1825 | -96 | 0 | -94 | 13 | 3.08 | 3.08 | 3.08 | 3.08 | -0.39 | 3.0 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | -0 | 1471 | -112 | 0 | -89 | 423 | 3.08 | 3.08 | 3.08 | 3.08 | -13.01 | 100.8 | 0.00 |
| 4 | 38 | -0 | 1346 | -100 | 0 | -79 | 338 | 3.08 | 3.08 | 3.08 | 3.08 | -10.40 | 80.6 | 0.00 |
| 5 | 38 | -0 | 1305 | -96 | 0 | -76 | 310 | 3.08 | 3.08 | 3.08 | 3.08 | -9.53 | 73.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 57 | -0 | 834 | -112 | 0 | -68 | 643 | 3.08 | 3.08 | 3.08 | 3.08 | -30.75 | 1154.9 | 0.05 |
| 4 | 57 | -0 | 797 | -100 | 0 | -60 | 542 | 3.08 | 3.08 | 3.08 | 3.08 | -16.66 | 129.1 | 0.00 |
| 5 | 57 | -0 | 784 | -96 | 0 | -58 | 509 | 3.08 | 3.08 | 3.08 | 3.08 | -15.63 | 121.1 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 76 | -0 | 197 | -112 | 0 | -46 | 741 | 3.08 | 3.08 | 3.08 | 3.08 | -35.44 | 1331.1 | 0.07 |
| 4 | 76 | -0 | 247 | -100 | 0 | -41 | 641 | 3.08 | 3.08 | 3.08 | 3.08 | -30.69 | 1152.6 | 0.05 |
| 5 | 76 | -0 | 263 | -96 | 0 | -40 | 608 | 3.08 | 3.08 | 3.08 | 3.08 | -18.69 | 144.8 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 95 | -0 | -440 | -112 | 0 | -25 | 718 | 3.08 | 3.08 | 3.08 | 3.08 | -34.34 | 1289.7 | 0.06 |
| 4 | 95 | -0 | -303 | -100 | 0 | -22 | 636 | 3.08 | 3.08 | 3.08 | 3.08 | -30.44 | 1143.0 | 0.05 |
| 5 | 95 | -0 | -258 | -96 | 0 | -21 | 609 | 3.08 | 3.08 | 3.08 | 3.08 | -18.71 | 145.0 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 114 | -0 | -1077 | -112 | 0 | -4 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | -17.62 | 136.6 | 0.00 |
| 4 | 114 | -0 | -853 | -100 | 0 | -3 | 526 | 3.08 | 3.08 | 3.08 | 3.08 | -16.17 | 125.3 | 0.00 |
| 5 | 114 | -0 | -778 | -96 | 0 | -3 | 510 | 3.08 | 3.08 | 3.08 | 3.08 | -15.68 | 121.5 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -0 | -1714 | -112 | 0 | 17 | 308 | 3.08 | 3.08 | 3.08 | 3.08 | -9.47 | 73.4 | 0.00 |
| 4 | 133 | -0 | -1403 | -100 | 0 | 16 | 312 | 3.08 | 3.08 | 3.08 | 3.08 | -9.58 | 74.2 | 0.00 |
| 5 | 133 | -0 | -1299 | -96 | 0 | 15 | 313 | 3.08 | 3.08 | 3.08 | 3.08 | -9.62 | 74.5 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 152 | -0 | -2351 | -112 | 0 | 39 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | -2.40 | 18.6 | 0.00 |
| 4 | 152 | -0 | -1952 | -100 | 0 | 35 | -7 | 3.08 | 3.08 | 3.08 | 3.08 | -0.22 | 1.7 | 0.00 |
| 5 | 152 | -0 | -1820 | -96 | 0 | 33 | 17 | 3.08 | 3.08 | 3.08 | 3.08 | -0.51 | 4.0 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -0 | -2988 | -112 | 0 | 60 | -585 | 3.08 | 3.08 | 3.08 | 3.08 | -17.99 | 139.4 | 0.00 |
| 4 | 171 | -0 | -2502 | -100 | 0 | 54 | -430 | 3.08 | 3.08 | 3.08 | 3.08 | -13.23 | 102.5 | 0.00 |
| 5 | 171 | -0 | -2340 | -96 | 0 | 51 | -379 | 3.08 | 3.08 | 3.08 | 3.08 | -11.64 | 90.2 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 190 | -0 | -3625 | -112 | 0 | 81 | -1214 | 3.08 | 3.08 | 3.08 | 4.62 | -50.69 | 1476.9 | 0.08 |
| 4 | 190 | -0 | -3052 | -100 | 0 | 73 | -958 | 3.08 | 3.08 | 3.08 | 4.62 | -40.02 | 1165.9 | 0.06 |
| 5 | 190 | -0 | -2861 | -96 | 0 | 70 | -873 | 3.08 | 3.08 | 3.08 | 4.62 | -36.46 | 1062.2 | 0.05 |

apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22** NI 17523 NF 17522 SEZ. Rp B= 20.0 H= 22.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.1000 1.1000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -0 | 710 | 49 | 0 | 25 | -380 | 3.08 | 3.08 | 3.08 | 3.08 | -16.51 | 127.5 | 0.00 |
| 4 | 0 | -0 | 658 | 43 | 0 | 22 | -350 | 3.08 | 3.08 | 3.08 | 3.08 | -15.22 | 117.5 | 0.00 |
| 5 | 0 | -0 | 641 | 41 | 0 | 21 | -340 | 3.08 | 3.08 | 3.08 | 3.08 | -14.78 | 114.1 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 11 | -0 | 698 | 49 | 0 | 19 | -302 | 3.08 | 3.08 | 3.08 | 3.08 | -13.15 | 101.5 | 0.00 |
| 4 | 11 | -0 | 646 | 43 | 0 | 17 | -278 | 3.08 | 3.08 | 3.08 | 3.08 | -12.10 | 93.4 | 0.00 |
| 5 | 11 | -0 | 629 | 41 | 0 | 17 | -270 | 3.08 | 3.08 | 3.08 | 3.08 | -11.74 | 90.7 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 22 | -0 | 686 | 49 | 0 | 14 | -226 | 3.08 | 3.08 | 3.08 | 3.08 | -9.84 | 76.0 | 0.00 |
| 4 | 22 | -0 | 634 | 43 | 0 | 13 | -208 | 3.08 | 3.08 | 3.08 | 3.08 | -9.04 | 69.8 | 0.00 |
| 5 | 22 | -0 | 617 | 41 | 0 | 12 | -202 | 3.08 | 3.08 | 3.08 | 3.08 | -8.77 | 67.7 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -0 | 674 | 49 | 0 | 9 | -152 | 3.08 | 3.08 | 3.08 | 3.08 | -6.59 | 50.9 | 0.00 |
| 4 | 33 | -0 | 622 | 43 | 0 | 8 | -139 | 3.08 | 3.08 | 3.08 | 3.08 | -6.04 | 46.6 | 0.00 |
| 5 | 33 | -0 | 605 | 41 | 0 | 7 | -135 | 3.08 | 3.08 | 3.08 | 3.08 | -5.85 | 45.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 44 | -0 | 662 | 49 | 0 | 3 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | -3.40 | 26.2 | 0.00 |
| 4 | 44 | -0 | 610 | 43 | 0 | 3 | -71 | 3.08 | 3.08 | 3.08 | 3.08 | -3.09 | 23.9 | 0.00 |
| 5 | 44 | -0 | 593 | 41 | 0 | 3 | -69 | 3.08 | 3.08 | 3.08 | 3.08 | -2.98 | 23.0 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 55 | -0 | 649 | 49 | 0 | -2 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | -0.27 | 2.1 | 0.00 |
| 4 | 55 | -0 | 598 | 43 | 0 | -2 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | -0.20 | 1.6 | 0.00 |
| 5 | 55 | -0 | 580 | 41 | 0 | -2 | -4 | 3.08 | 3.08 | 3.08 | 3.08 | -0.18 | 1.4 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | -0 | 637 | 49 | 0 | -7 | 65 | 3.08 | 3.08 | 3.08 | 3.08 | -2.81 | 21.7 | 0.00 |
| 4 | 66 | -0 | 586 | 43 | 0 | -6 | 60 | 3.08 | 3.08 | 3.08 | 3.08 | -2.62 | 20.3 | 0.00 |
| 5 | 66 | -0 | 568 | 41 | 0 | -6 | 59 | 3.08 | 3.08 | 3.08 | 3.08 | -2.57 | 19.8 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 77 | -0 | 625 | 49 | 0 | -13 | 134 | 3.08 | 3.08 | 3.08 | 3.08 | -5.83 | 45.0 | 0.00 |
| 4 | 77 | -0 | 574 | 43 | 0 | -11 | 124 | 3.08 | 3.08 | 3.08 | 3.08 | -5.40 | 41.7 | 0.00 |
| 5 | 77 | -0 | 556 | 41 | 0 | -11 | 121 | 3.08 | 3.08 | 3.08 | 3.08 | -5.25 | 40.6 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 88 | -0 | 613 | 49 | 0 | -18 | 202 | 3.08 | 3.08 | 3.08 | 3.08 | -8.79 | 67.9 | 0.00 |
| 4 | 88 | -0 | 561 | 43 | 0 | -16 | 187 | 3.08 | 3.08 | 3.08 | 3.08 | -8.11 | 62.6 | 0.00 |
| 5 | 88 | -0 | 544 | 41 | 0 | -15 | 181 | 3.08 | 3.08 | 3.08 | 3.08 | -7.88 | 60.9 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 99 | -0 | 601 | 49 | 0 | -23 | 269 | 3.08 | 3.08 | 3.08 | 3.08 | -11.69 | 90.3 | 0.00 |
| 4 | 99 | -0 | 549 | 43 | 0 | -21 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | -10.76 | 83.1 | 0.00 |
| 5 | 99 | -0 | 532 | 41 | 0 | -20 | 241 | 3.08 | 3.08 | 3.08 | 3.08 | -10.46 | 80.7 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -0 | 589 | 49 | 0 | -29 | 334 | 3.08 | 3.08 | 3.08 | 3.08 | -14.54 | 112.2 | 0.00 |
| 4 | 110 | -0 | 537 | 43 | 0 | -25 | 307 | 3.08 | 3.08 | 3.08 | 3.08 | -13.36 | 103.2 | 0.00 |
| 5 | 110 | -0 | 520 | 41 | 0 | -24 | 298 | 3.08 | 3.08 | 3.08 | 3.08 | -12.97 | 100.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **57** Tabella: **Travi scala**
Descrizione: **Travi pianerottoli via dei quartieri**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 24** NI 17778 NF 17776 SEZ. Rp B= 50.0 H= 18.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 2.2500 20.0400 13.6272 35.9172 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -0 | 5004 | 12 | 0 | -386 | -1281 | 3.08 | 3.08 | 3.08 | 3.08 | -68.33 | 2872.4 | 0.26 |
| 4 | 0 | -0 | 4429 | 10 | 0 | -342 | -1127 | 3.08 | 3.08 | 3.08 | 3.08 | -60.11 | 2527.0 | 0.22 |
| 5 | 0 | -0 | 4237 | 9 | 0 | -328 | -1076 | 3.08 | 3.08 | 3.08 | 3.08 | -57.39 | 2412.7 | 0.21 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 28 | -0 | 3998 | 12 | 0 | -389 | -21 | 3.08 | 3.08 | 3.08 | 3.08 | -0.59 | 4.4 | 0.00 |
| 4 | 28 | -0 | 3538 | 10 | 0 | -345 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | -0.34 | 2.5 | 0.00 |
| 5 | 28 | -0 | 3384 | 9 | 0 | -331 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | -0.26 | 1.9 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 56 | -0 | 2993 | 12 | 0 | -392 | 958 | 3.08 | 3.08 | 3.08 | 3.08 | -51.11 | 2148.4 | 0.17 |
| 4 | 56 | -0 | 2647 | 10 | 0 | -348 | 854 | 3.08 | 3.08 | 3.08 | 3.08 | -45.56 | 1915.2 | 0.15 |
| 5 | 56 | -0 | 2531 | 9 | 0 | -333 | 819 | 3.08 | 3.08 | 3.08 | 3.08 | -43.70 | 1837.0 | 0.14 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 84 | -0 | 1987 | 12 | 0 | -396 | 1655 | 3.08 | 3.08 | 4.62 | 3.08 | -76.00 | 2511.1 | 0.18 |
| 4 | 84 | -0 | 1755 | 10 | 0 | -351 | 1470 | 3.08 | 3.08 | 4.62 | 3.08 | -67.51 | 2230.6 | 0.16 |
| 5 | 84 | -0 | 1678 | 9 | 0 | -336 | 1409 | 3.08 | 3.08 | 4.62 | 3.08 | -64.67 | 2136.8 | 0.15 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 112 | -0 | 981 | 12 | 0 | -399 | 2071 | 3.08 | 3.08 | 6.16 | 3.08 | -86.18 | 2384.7 | 0.15 |
| 4 | 112 | -0 | 864 | 10 | 0 | -354 | 1837 | 3.08 | 3.08 | 6.16 | 3.08 | -76.45 | 2115.4 | 0.13 |
| 5 | 112 | -0 | 825 | 9 | 0 | -338 | 1759 | 3.08 | 3.08 | 6.16 | 3.08 | -73.21 | 2025.6 | 0.12 |
| apost= -- aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 140 | -0 | -24 | 12 | 0 | -403 | 2205 | 3.08 | 3.08 | 6.16 | 3.08 | -91.76 | 2539.0 | 0.16 |
| 4 | 140 | -0 | -27 | 10 | 0 | -356 | 1954 | 3.08 | 3.08 | 6.16 | 3.08 | -81.33 | 2250.4 | 0.14 |
| 5 | 140 | -0 | -28 | 9 | 0 | -341 | 1871 | 3.08 | 3.08 | 6.16 | 3.08 | -77.85 | 2154.2 | 0.13 |
| apost= -- aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 168 | -0 | -1030 | 12 | 0 | -406 | 2057 | 3.08 | 3.08 | 6.16 | 3.08 | -85.62 | 2369.0 | 0.15 |
| 4 | 168 | -0 | -918 | 10 | 0 | -359 | 1822 | 3.08 | 3.08 | 6.16 | 3.08 | -75.82 | 2097.9 | 0.13 |
| 5 | 168 | -0 | -881 | 9 | 0 | -344 | 1743 | 3.08 | 3.08 | 6.16 | 3.08 | -72.56 | 2007.7 | 0.12 |
| apost= -- aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 196 | -0 | -2036 | 12 | 0 | -409 | 1628 | 3.08 | 3.08 | 4.62 | 3.08 | -74.75 | 2469.8 | 0.18 |
| 4 | 196 | -0 | -1809 | 10 | 0 | -362 | 1440 | 3.08 | 3.08 | 4.62 | 3.08 | -66.11 | 2184.4 | 0.15 |
| 5 | 196 | -0 | -1734 | 9 | 0 | -346 | 1377 | 3.08 | 3.08 | 4.62 | 3.08 | -63.24 | 2089.5 | 0.15 |
| apost= -- aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 224 | -0 | -3042 | 12 | 0 | -413 | 917 | 3.08 | 3.08 | 3.08 | 3.08 | -48.93 | 2056.9 | 0.16 |
| 4 | 224 | -0 | -2701 | 10 | 0 | -365 | 809 | 3.08 | 3.08 | 3.08 | 3.08 | -43.13 | 1812.9 | 0.13 |
| 5 | 224 | -0 | -2587 | 9 | 0 | -349 | 772 | 3.08 | 3.08 | 3.08 | 3.08 | -41.20 | 1732.0 | 0.12 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 252 | -0 | -4047 | 12 | 0 | -416 | -75 | 3.08 | 3.08 | 3.08 | 3.08 | -2.16 | 16.0 | 0.00 |
| 4 | 252 | -0 | -3592 | 10 | 0 | -368 | -72 | 3.08 | 3.08 | 3.08 | 3.08 | -2.08 | 15.4 | 0.00 |
| 5 | 252 | -0 | -3440 | 9 | 0 | -351 | -71 | 3.08 | 3.08 | 3.08 | 3.08 | -2.05 | 15.2 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 280 | -0 | -5053 | 12 | 0 | -419 | -1349 | 3.08 | 3.08 | 3.08 | 4.62 | -61.94 | 2046.4 | 0.14 |
| 4 | 280 | -0 | -4483 | 10 | 0 | -370 | -1203 | 3.08 | 3.08 | 3.08 | 4.62 | -55.23 | 1825.0 | 0.12 |
| 5 | 280 | -0 | -4293 | 9 | 0 | -354 | -1154 | 3.08 | 3.08 | 3.08 | 4.62 | -52.98 | 1750.6 | 0.12 |
| apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **65** Tabella: **Travi scala**
Descrizione: **Travi nuove 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 17415 NF 17446 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -0 | 1908 | -182 | 0 | -55 | -336 | 3.08 | 3.08 | 3.08 | 3.08 | -12.43 | 94.2 | 0.00 |
| 4 | 0 | -0 | 1756 | -172 | 0 | -51 | -312 | 3.08 | 3.08 | 3.08 | 3.08 | -11.52 | 87.4 | 0.00 |
| 5 | 0 | -0 | 1706 | -168 | 0 | -50 | -304 | 3.08 | 3.08 | 3.08 | 3.08 | -11.23 | 85.2 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 25 | -0 | 1871 | -182 | 0 | -10 | 130 | 3.08 | 3.08 | 3.08 | 3.08 | -4.82 | 36.5 | 0.00 |
| 4 | 25 | -0 | 1719 | -172 | 0 | -9 | 117 | 3.08 | 3.08 | 3.08 | 3.08 | -4.33 | 32.9 | 0.00 |
| 5 | 25 | -0 | 1669 | -168 | 0 | -9 | 113 | 3.08 | 3.08 | 3.08 | 3.08 | -4.17 | 31.6 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 49 | -0 | 1834 | -182 | 0 | 35 | 588 | 3.08 | 3.08 | 3.08 | 3.08 | -33.32 | 1181.7 | 0.06 |
| 4 | 49 | -0 | 1682 | -172 | 0 | 34 | 537 | 3.08 | 3.08 | 3.08 | 3.08 | -30.45 | 1079.8 | 0.05 |
| 5 | 49 | -0 | 1632 | -168 | 0 | 33 | 520 | 3.08 | 3.08 | 3.08 | 3.08 | -19.23 | 145.8 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 2** NI 17446 NF 17413 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -0 | -801 | 53 | 0 | 5 | 615 | 3.08 | 3.08 | 3.08 | 3.08 | -34.83 | 1235.2 | 0.06 |
| 4 | 0 | -0 | -724 | 50 | 0 | 6 | 561 | 3.08 | 3.08 | 3.08 | 3.08 | -31.80 | 1127.6 | 0.05 |
| 5 | 0 | -0 | -698 | 49 | 0 | 6 | 543 | 3.08 | 3.08 | 3.08 | 3.08 | -30.78 | 1091.7 | 0.05 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 14 | -0 | -821 | 53 | 0 | -2 | 503 | 3.08 | 3.08 | 3.08 | 3.08 | -18.60 | 141.0 | 0.00 |
| 4 | 14 | -0 | -744 | 50 | 0 | -1 | 460 | 3.08 | 3.08 | 3.08 | 3.08 | -17.01 | 129.0 | 0.00 |
| 5 | 14 | -0 | -718 | 49 | 0 | -1 | 446 | 3.08 | 3.08 | 3.08 | 3.08 | -16.48 | 124.9 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 27 | -0 | -842 | 53 | 0 | -9 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | -14.38 | 109.0 | 0.00 |
| 4 | 27 | -0 | -765 | 50 | 0 | -8 | 357 | 3.08 | 3.08 | 3.08 | 3.08 | -13.18 | 99.9 | 0.00 |
| 5 | 27 | -0 | -739 | 49 | 0 | -8 | 346 | 3.08 | 3.08 | 3.08 | 3.08 | -12.78 | 96.9 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 41 | -0 | -863 | 53 | 0 | -17 | 272 | 3.08 | 3.08 | 3.08 | 3.08 | -10.05 | 76.2 | 0.00 |
| 4 | 41 | -0 | -785 | 50 | 0 | -15 | 250 | 3.08 | 3.08 | 3.08 | 3.08 | -9.25 | 70.1 | 0.00 |
| 5 | 41 | -0 | -759 | 49 | 0 | -14 | 243 | 3.08 | 3.08 | 3.08 | 3.08 | -8.98 | 68.1 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 55 | -0 | -883 | 53 | 0 | -24 | 152 | 3.08 | 3.08 | 3.08 | 3.08 | -5.62 | 42.6 | 0.00 |
| 4 | 55 | -0 | -806 | 50 | 0 | -22 | 141 | 3.08 | 3.08 | 3.08 | 3.08 | -5.21 | 39.5 | 0.00 |
| 5 | 55 | -0 | -780 | 49 | 0 | -21 | 137 | 3.08 | 3.08 | 3.08 | 3.08 | -5.08 | 38.5 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 69 | -0 | -904 | 53 | 0 | -31 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | -1.09 | 8.3 | 0.00 |
| 4 | 69 | -0 | -827 | 50 | 0 | -29 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | -1.07 | 8.1 | 0.00 |
| 5 | 69 | -0 | -801 | 49 | 0 | -28 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | -1.07 | 8.1 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 82 | -0 | -925 | 53 | 0 | -39 | -96 | 3.08 | 3.08 | 3.08 | 3.08 | -3.55 | 26.9 | 0.00 |
| 4 | 82 | -0 | -847 | 50 | 0 | -35 | -86 | 3.08 | 3.08 | 3.08 | 3.08 | -3.17 | 24.1 | 0.00 |
| 5 | 82 | -0 | -821 | 49 | 0 | -34 | -82 | 3.08 | 3.08 | 3.08 | 3.08 | -3.04 | 23.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 96 | -0 | -945 | 53 | 0 | -46 | -224 | 3.08 | 3.08 | 3.08 | 3.08 | -8.29 | 62.9 | 0.00 |
| 4 | 96 | -0 | -868 | 50 | 0 | -42 | -204 | 3.08 | 3.08 | 3.08 | 3.08 | -7.52 | 57.0 | 0.00 |
| 5 | 96 | -0 | -842 | 49 | 0 | -41 | -197 | 3.08 | 3.08 | 3.08 | 3.08 | -7.26 | 55.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -0 | -966 | 53 | 0 | -54 | -355 | 3.08 | 3.08 | 3.08 | 3.08 | -13.14 | 99.6 | 0.00 |
| 4 | 110 | -0 | -888 | 50 | 0 | -49 | -324 | 3.08 | 3.08 | 3.08 | 3.08 | -11.98 | 90.8 | 0.00 |
| 5 | 110 | -0 | -862 | 49 | 0 | -48 | -313 | 3.08 | 3.08 | 3.08 | 3.08 | -11.59 | 87.8 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 124 | -0 | -986 | 53 | 0 | -61 | -489 | 3.08 | 3.08 | 3.08 | 3.08 | -18.09 | 137.1 | 0.00 |
| 4 | 124 | -0 | -909 | 50 | 0 | -56 | -447 | 3.08 | 3.08 | 3.08 | 3.08 | -16.54 | 125.4 | 0.00 |
| 5 | 124 | -0 | -883 | 49 | 0 | -54 | -433 | 3.08 | 3.08 | 3.08 | 3.08 | -16.01 | 121.4 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 137 | -0 | -1007 | 53 | 0 | -68 | -626 | 3.08 | 3.08 | 3.08 | 3.08 | -35.49 | 1258.7 | 0.07 |
| 4 | 137 | -0 | -930 | 50 | 0 | -63 | -574 | 3.08 | 3.08 | 3.08 | 3.08 | -32.51 | 1153.0 | 0.06 |
| 5 | 137 | -0 | -904 | 49 | 0 | -61 | -556 | 3.08 | 3.08 | 3.08 | 3.08 | -31.51 | 1117.4 | 0.05 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 3**  NI 17446  NF 17312  SEZ.  Rp  B= 30.0  H= 20.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.5000  10.1250  7.6500  19.2750  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -0 | 2635 | -2 | 0 | 30 | -1040 | 3.08 | 3.08 | 3.08 | 3.08 | -58.95 | 2090.4 | 0.14 |
| 4 | 0 | -0 | 2406 | -2 | 0 | 28 | -985 | 3.08 | 3.08 | 3.08 | 3.08 | -55.80 | 1978.9 | 0.13 |
| 5 | 0 | -0 | 2329 | -2 | 0 | 27 | -966 | 3.08 | 3.08 | 3.08 | 3.08 | -54.77 | 1942.3 | 0.13 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 21 | -0 | 2237 | -2 | 0 | 30 | -537 | 3.08 | 3.08 | 3.08 | 3.08 | -30.46 | 1080.3 | 0.05 |
| 4 | 21 | -0 | 2056 | -2 | 0 | 28 | -524 | 3.08 | 3.08 | 3.08 | 3.08 | -19.38 | 146.9 | 0.00 |
| 5 | 21 | -0 | 1995 | -2 | 0 | 28 | -520 | 3.08 | 3.08 | 3.08 | 3.08 | -19.23 | 145.8 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 41 | -0 | 1840 | -2 | 0 | 31 | -117 | 3.08 | 3.08 | 3.08 | 3.08 | -4.32 | 32.8 | 0.00 |
| 4 | 41 | -0 | 1705 | -2 | 0 | 29 | -137 | 3.08 | 3.08 | 3.08 | 3.08 | -5.05 | 38.3 | 0.00 |
| 5 | 41 | -0 | 1660 | -2 | 0 | 28 | -143 | 3.08 | 3.08 | 3.08 | 3.08 | -5.29 | 40.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 62 | -0 | 1442 | -2 | 0 | 31 | 222 | 3.08 | 3.08 | 3.08 | 3.08 | -8.19 | 62.1 | 0.00 |
| 4 | 62 | -0 | 1355 | -2 | 0 | 29 | 179 | 3.08 | 3.08 | 3.08 | 3.08 | -6.62 | 50.2 | 0.00 |
| 5 | 62 | -0 | 1326 | -2 | 0 | 28 | 165 | 3.08 | 3.08 | 3.08 | 3.08 | -6.09 | 46.2 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 83 | -0 | 1044 | -2 | 0 | 32 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | -17.67 | 134.0 | 0.00 |
| 4 | 83 | -0 | 1005 | -2 | 0 | 29 | 422 | 3.08 | 3.08 | 3.08 | 3.08 | -15.61 | 118.4 | 0.00 |
| 5 | 83 | -0 | 991 | -2 | 0 | 29 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | -14.92 | 113.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -0 | 647 | -2 | 0 | 32 | 653 | 3.08 | 3.08 | 3.08 | 3.08 | -36.99 | 1311.6 | 0.07 |
| 4 | 103 | -0 | 655 | -2 | 0 | 30 | 593 | 3.08 | 3.08 | 3.08 | 3.08 | -33.64 | 1192.9 | 0.06 |
| 5 | 103 | -0 | 656 | -2 | 0 | 29 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | -32.52 | 1153.3 | 0.06 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 124 | -0 | 249 | -2 | 0 | 33 | 745 | 3.08 | 3.08 | 3.08 | 3.08 | -42.22 | 1497.3 | 0.09 |
| 4 | 124 | -0 | 304 | -2 | 0 | 30 | 692 | 3.08 | 3.08 | 3.08 | 3.08 | -39.24 | 1391.5 | 0.08 |
| 5 | 124 | -0 | 322 | -2 | 0 | 29 | 675 | 3.08 | 3.08 | 3.08 | 3.08 | -38.25 | 1356.3 | 0.07 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 144 | -0 | -149 | -2 | 0 | 33 | 755 | 3.08 | 3.08 | 3.08 | 3.08 | -42.81 | 1518.2 | 0.09 |
| 4 | 144 | -0 | -46 | -2 | 0 | 30 | 719 | 3.08 | 3.08 | 3.08 | 3.08 | -40.74 | 1444.8 | 0.08 |
| 5 | 144 | -0 | -13 | -2 | 0 | 30 | 707 | 3.08 | 3.08 | 3.08 | 3.08 | -40.06 | 1420.6 | 0.08 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 165 | -0 | -547 | -2 | 0 | 33 | 684 | 3.08 | 3.08 | 3.08 | 3.08 | -38.75 | 1374.1 | 0.08 |
| 4 | 165 | -0 | -396 | -2 | 0 | 31 | 673 | 3.08 | 3.08 | 3.08 | 3.08 | -38.15 | 1352.9 | 0.07 |
| 5 | 165 | -0 | -347 | -2 | 0 | 30 | 670 | 3.08 | 3.08 | 3.08 | 3.08 | -37.96 | 1346.1 | 0.07 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 186 | -0 | -944 | -2 | 0 | 34 | 530 | 3.08 | 3.08 | 3.08 | 3.08 | -30.04 | 1065.2 | 0.05 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 186 | -0 | -747 | -2 | 0 | 31 | 555 | 3.08 | 3.08 | 3.08 | 3.08 | -31.46 | 1115.7 | 0.05 |
| 5 | 186 | -0 | -681 | -2 | 0 | 30 | 564 | 3.08 | 3.08 | 3.08 | 3.08 | -31.95 | 1133.0 | 0.05 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 206 | -0 | -1342 | -2 | 0 | 34 | 294 | 3.08 | 3.08 | 3.08 | 3.08 | -10.87 | 82.4 | 0.00 |
| 4 | 206 | -0 | -1097 | -2 | 0 | 32 | 365 | 3.08 | 3.08 | 3.08 | 3.08 | -13.48 | 102.2 | 0.00 |
| 5 | 206 | -0 | -1016 | -2 | 0 | 31 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | -14.36 | 108.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4** NI 17315 NF 17316 SEZ. Rp B= 20.0 H= 20.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.0000 4.0500 3.0600 8.1100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -0 | 717 | -57 | 0 | -25 | -205 | 3.08 | 3.08 | 3.08 | 3.08 | -10.69 | 80.7 | 0.00 |
| 4 | 0 | -0 | 648 | -54 | 0 | -23 | -188 | 3.08 | 3.08 | 3.08 | 3.08 | -9.81 | 74.1 | 0.00 |
| 5 | 0 | -0 | 625 | -53 | 0 | -23 | -183 | 3.08 | 3.08 | 3.08 | 3.08 | -9.52 | 71.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 9 | -0 | 644 | -57 | 0 | -19 | -144 | 3.08 | 3.08 | 3.08 | 3.08 | -7.50 | 56.6 | 0.00 |
| 4 | 9 | -0 | 583 | -54 | 0 | -19 | -133 | 3.08 | 3.08 | 3.08 | 3.08 | -6.92 | 52.3 | 0.00 |
| 5 | 9 | -0 | 563 | -53 | 0 | -18 | -129 | 3.08 | 3.08 | 3.08 | 3.08 | -6.73 | 50.8 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 18 | -0 | 571 | -57 | 0 | -14 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | -4.65 | 35.1 | 0.00 |
| 4 | 18 | -0 | 518 | -54 | 0 | -14 | -83 | 3.08 | 3.08 | 3.08 | 3.08 | -4.34 | 32.8 | 0.00 |
| 5 | 18 | -0 | 501 | -53 | 0 | -13 | -81 | 3.08 | 3.08 | 3.08 | 3.08 | -4.24 | 32.0 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 27 | -0 | 498 | -57 | 0 | -9 | -41 | 3.08 | 3.08 | 3.08 | 3.08 | -2.14 | 16.2 | 0.00 |
| 4 | 27 | -0 | 453 | -54 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | -2.06 | 15.5 | 0.00 |
| 5 | 27 | -0 | 439 | -53 | 0 | -9 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | -2.03 | 15.3 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -0 | 425 | -57 | 0 | -4 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | -0.02 | 0.2 | 0.00 |
| 4 | 36 | -0 | 389 | -54 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | -0.08 | 0.6 | 0.00 |
| 5 | 36 | -0 | 377 | -53 | 0 | -4 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | -0.12 | 0.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 45 | -0 | 352 | -57 | 0 | 1 | 35 | 3.08 | 3.08 | 3.08 | 3.08 | -1.85 | 13.9 | 0.00 |
| 4 | 45 | -0 | 324 | -54 | 0 | 1 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | -1.59 | 12.0 | 0.00 |
| 5 | 45 | -0 | 315 | -53 | 0 | 1 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | -1.50 | 11.3 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 54 | -0 | 279 | -57 | 0 | 6 | 64 | 3.08 | 3.08 | 3.08 | 3.08 | -3.33 | 25.1 | 0.00 |
| 4 | 54 | -0 | 259 | -54 | 0 | 6 | 57 | 3.08 | 3.08 | 3.08 | 3.08 | -2.96 | 22.3 | 0.00 |
| 5 | 54 | -0 | 253 | -53 | 0 | 6 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | -2.83 | 21.4 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 63 | -0 | 206 | -57 | 0 | 11 | 86 | 3.08 | 3.08 | 3.08 | 3.08 | -4.46 | 33.7 | 0.00 |
| 4 | 63 | -0 | 195 | -54 | 0 | 10 | 77 | 3.08 | 3.08 | 3.08 | 3.08 | -4.02 | 30.4 | 0.00 |
| 5 | 63 | -0 | 191 | -53 | 0 | 10 | 74 | 3.08 | 3.08 | 3.08 | 3.08 | -3.88 | 29.3 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 72 | -0 | 133 | -57 | 0 | 16 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | -5.26 | 39.7 | 0.00 |
| 4 | 72 | -0 | 130 | -54 | 0 | 15 | 92 | 3.08 | 3.08 | 3.08 | 3.08 | -4.78 | 36.1 | 0.00 |
| 5 | 72 | -0 | 129 | -53 | 0 | 15 | 89 | 3.08 | 3.08 | 3.08 | 3.08 | -4.62 | 34.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 81 | -0 | 60 | -57 | 0 | 21 | 110 | 3.08 | 3.08 | 3.08 | 3.08 | -5.71 | 43.1 | 0.00 |
| 4 | 81 | -0 | 65 | -54 | 0 | 20 | 100 | 3.08 | 3.08 | 3.08 | 3.08 | -5.24 | 39.6 | 0.00 |
| 5 | 81 | -0 | 67 | -53 | 0 | 20 | 97 | 3.08 | 3.08 | 3.08 | 3.08 | -5.08 | 38.4 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 90 | -0 | -13 | -57 | 0 | 26 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | -5.82 | 43.9 | 0.00 |
| 4 | 90 | -0 | 0 | -54 | 0 | 25 | 103 | 3.08 | 3.08 | 3.08 | 3.08 | -5.39 | 40.7 | 0.00 |
| 5 | 90 | -0 | 5 | -53 | 0 | 25 | 101 | 3.08 | 3.08 | 3.08 | 3.08 | -5.25 | 39.7 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **65** Tabella: **Tabella travi**
Descrizione: **Travi nuove 3p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 5** NI 14583 NF 14661 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 21.1500 9.1800 37.3300 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | cm$^2$ | | | | | kg/cm$^2$ | | mm |
| 3 | 0 | 756 | 14470 | 10 | 1 | 478 | -15130 | 9.24 | 3.08 | 6.16 | 9.24 | -59.26 | 2647.8 | 0.15 |
| 4 | 0 | 669 | 13440 | 9 | 1 | 440 | -14160 | 9.24 | 3.08 | 6.16 | 9.24 | -55.46 | 2478.0 | 0.13 |
| 5 | 0 | 638 | 13100 | 8 | 1 | 427 | -13830 | 9.24 | 3.08 | 6.16 | 9.24 | -54.17 | 2420.3 | 0.13 |
| apost= 6.16 aant= -- ainf= 3.08 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 70 | 756 | 11840 | 10 | 1 | 471 | -5861 | 9.24 | 3.08 | 4.62 | 9.24 | -14.02 | 118.4 | 0.00 |
| 4 | 70 | 669 | 11004 | 9 | 1 | 434 | -5546 | 9.24 | 3.08 | 4.62 | 9.24 | -13.27 | 112.0 | 0.00 |
| 5 | 70 | 638 | 10729 | 8 | 1 | 421 | -5435 | 9.24 | 3.08 | 4.62 | 9.24 | -13.00 | 109.7 | 0.00 |
| apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 141 | 756 | 9210 | 10 | 1 | 464 | 1554 | 9.24 | 3.08 | 9.24 | 3.08 | -3.76 | 31.5 | 0.00 |
| 4 | 141 | 669 | 8568 | 9 | 1 | 427 | 1352 | 9.24 | 3.08 | 9.24 | 3.08 | -3.27 | 27.4 | 0.00 |
| 5 | 141 | 638 | 8358 | 8 | 1 | 415 | 1290 | 9.24 | 3.08 | 9.24 | 3.08 | -3.12 | 26.2 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 211 | 756 | 6580 | 10 | 1 | 456 | 7116 | 9.24 | 3.08 | 9.24 | 3.08 | -17.24 | 144.4 | 0.00 |
| 4 | 211 | 669 | 6132 | 9 | 1 | 421 | 6533 | 9.24 | 3.08 | 9.24 | 3.08 | -15.83 | 132.6 | 0.00 |
| 5 | 211 | 638 | 5987 | 8 | 1 | 409 | 6344 | 9.24 | 3.08 | 9.24 | 3.08 | -15.37 | 128.7 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 282 | 756 | 3950 | 10 | 1 | 449 | 10825 | 9.24 | 3.08 | 9.24 | 3.08 | -45.22 | 1908.2 | 0.09 |
| 4 | 282 | 669 | 3696 | 9 | 1 | 415 | 9998 | 9.24 | 3.08 | 9.24 | 3.08 | -41.77 | 1762.3 | 0.08 |
| 5 | 282 | 638 | 3616 | 8 | 1 | 403 | 9726 | 9.24 | 3.08 | 9.24 | 3.08 | -40.63 | 1714.4 | 0.08 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 352 | 756 | 1320 | 10 | 1 | 442 | 12681 | 9.24 | 3.08 | 9.24 | 3.08 | -52.97 | 2235.3 | 0.12 |
| 4 | 352 | 669 | 1260 | 9 | 1 | 408 | 11746 | 9.24 | 3.08 | 9.24 | 3.08 | -49.07 | 2070.5 | 0.10 |
| 5 | 352 | 638 | 1245 | 8 | 1 | 397 | 11438 | 9.24 | 3.08 | 9.24 | 3.08 | -47.78 | 2016.2 | 0.10 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 423 | 756 | -1310 | 10 | 1 | 434 | 12684 | 9.24 | 3.08 | 9.24 | 3.08 | -52.99 | 2235.8 | 0.12 |
| 4 | 423 | 669 | -1176 | 9 | 1 | 402 | 11778 | 9.24 | 3.08 | 9.24 | 3.08 | -49.20 | 2076.1 | 0.10 |
| 5 | 423 | 638 | -1126 | 8 | 1 | 391 | 11479 | 9.24 | 3.08 | 9.24 | 3.08 | -47.95 | 2023.4 | 0.10 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 493 | 756 | -3940 | 10 | 1 | 427 | 10834 | 9.24 | 3.08 | 9.24 | 3.08 | -45.26 | 1909.6 | 0.09 |
| 4 | 493 | 669 | -3612 | 9 | 1 | 396 | 10094 | 9.24 | 3.08 | 9.24 | 3.08 | -42.17 | 1779.2 | 0.08 |
| 5 | 493 | 638 | -3497 | 8 | 1 | 385 | 9849 | 9.24 | 3.08 | 9.24 | 3.08 | -41.14 | 1736.1 | 0.08 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 564 | 756 | -6570 | 10 | 1 | 420 | 7130 | 9.24 | 3.08 | 9.24 | 3.08 | -17.27 | 144.7 | 0.00 |
| 4 | 564 | 669 | -6048 | 9 | 1 | 389 | 6693 | 9.24 | 3.08 | 9.24 | 3.08 | -16.21 | 135.8 | 0.00 |
| 5 | 564 | 638 | -5868 | 8 | 1 | 379 | 6548 | 9.24 | 3.08 | 9.24 | 3.08 | -15.86 | 132.9 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 634 | 756 | -9200 | 10 | 1 | 412 | 1573 | 9.24 | 3.08 | 9.24 | 4.62 | -3.76 | 31.8 | 0.00 |
| 4 | 634 | 669 | -8484 | 9 | 1 | 383 | 1575 | 9.24 | 3.08 | 9.24 | 4.62 | -3.77 | 31.8 | 0.00 |
| 5 | 634 | 638 | -8239 | 8 | 1 | 373 | 1577 | 9.24 | 3.08 | 9.24 | 4.62 | -3.77 | 31.8 | 0.00 |
| apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 705 | 756 | -11830 | 10 | 1 | 405 | -5837 | 9.24 | 3.08 | 4.62 | 9.24 | -13.97 | 117.9 | 0.00 |
| 4 | 705 | 669 | -10920 | 9 | 1 | 377 | -5259 | 9.24 | 3.08 | 4.62 | 9.24 | -12.58 | 106.2 | 0.00 |
| 5 | 705 | 638 | -10610 | 8 | 1 | 368 | -5066 | 9.24 | 3.08 | 4.62 | 9.24 | -12.12 | 102.3 | 0.00 |
| apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

# Verifiche della sicurezza in condizioni di Progetto – Verifica travi 4° P SLU - SLV

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **30** Tabella: **Tabella travi**
Descrizione: **Travi 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Verifica in ottemperanza alle NTC2008
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 16** NI 15986 NF 15872 SEZ. Rp B= 40.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 5.5000 15.6000 7.3440 28.4440 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1B | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1C | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1D | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1E | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1F | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1G | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1H | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1I | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1J | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1K | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1L | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1M | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1N | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1O | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 1P | 0 | -2854 | 9841 | 502 | -94 | 1923 | -8657 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.87 | 0.15 | 1.46 | 5.28 | 0.07 | 16.8 |
| 2 | 0 | -4222 | 14860 | 742 | -143 | 2843 | -13160 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.81 | 0.23 | 2.26 | 7.97 | 0.11 | 12.3 |

apost= 4.62 aant= -- ainf= -- asup= 4.62 staffe= 2 d 8 / 12.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1B | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1C | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1D | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1E | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1F | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1G | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1H | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1I | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1J | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1K | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1L | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1M | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1N | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1O | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 1P | 74 | -2854 | 7964 | 502 | -94 | 1554 | -2106 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.24 | 0.13 | 1.19 | 4.27 | 0.07 | 16.8 |
| 2 | 74 | -4222 | 12031 | 742 | -143 | 2297 | -3265 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.36 | 0.19 | 1.85 | 6.45 | 0.11 | 15.1 |

apost= 4.62 aant= -- ainf= -- asup= 4.62 staffe= 2 d 8 / 15.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1B | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1C | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1D | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1E | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1F | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1G | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1H | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1I | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1J | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1K | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1L | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1M | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1N | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1O | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 1P | 147 | -2854 | 6087 | 502 | -94 | 1185 | 3064 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.38 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |
| 2 | 147 | -4222 | 9202 | 742 | -143 | 1751 | 4547 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.57 | 0.15 | 1.45 | 4.94 | 0.11 | 16.8 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1B | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1C | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1D | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1E | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1F | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1G | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1H | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1I | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1J | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1L | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1M | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1N | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1O | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1P | 221 | -2854 | 4210 | 502 | -94 | 815 | 6853 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 1.00 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 2 | 221 | -4222 | 6373 | 742 | -143 | 1205 | 10279 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.76 | 0.11 | 0.87 | 0.00 | 0.00 | 16.8 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -2854 | 2333 | 502 | -94 | 446 | 9261 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.93 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -4222 | 3544 | 742 | -143 | 659 | 13928 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.86 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1M | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 368 | -2854 | 457 | 502 | -94 | 77 | 10287 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.79 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 368 | -4222 | 715 | 742 | -143 | 113 | 15495 | 7.70 | 3.08 | 7.70 | 3.08 | 6 | 0.96 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1B | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1C | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1D | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1E | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1F | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1G | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1H | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1I | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1J | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1K | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1L | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1M | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1N | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1O | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1P | 442 | -2854 | -1420 | 502 | -94 | -292 | 9933 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.76 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 2 | 442 | -4222 | -2114 | 742 | -143 | -432 | 14981 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.93 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 4.62 ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1B | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1C | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1D | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1E | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1F | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1G | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1H | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1I | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1J | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1K | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1L | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1M | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1N | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1O | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1P | 515 | -2854 | -3297 | 502 | -94 | -661 | 8197 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.82 | 0.06 | 0.51 | 0.00 | 0.00 | 16.8 |
| 2 | 515 | -4222 | -4943 | 742 | -143 | -978 | 12385 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.94 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 4.62 ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1B | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1C | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1D | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1F | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1G | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1H | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1I | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1J | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1K | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1L | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1M | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1N | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1O | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1P | 589 | -2854 | -5174 | 502 | -94 | -1031 | 5080 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.71 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 2 | 589 | -4222 | -7772 | 742 | -143 | -1524 | 7706 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.73 | 0.13 | 1.12 | 4.17 | 0.11 | 16.8 |

apost= --  aant= 4.62 ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1B | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1C | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1D | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1E | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1F | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1G | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1H | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1I | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1J | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1K | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1L | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1M | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1N | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1O | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 1P | 662 | -2854 | -7051 | 502 | -94 | -1400 | 582 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.21 | 0.11 | 1.07 | 3.78 | 0.07 | 16.8 |
| 2 | 662 | -4222 | -10601 | 742 | -143 | -2070 | 947 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.30 | 0.17 | 1.65 | 5.69 | 0.11 | 16.8 |

apost= --  aant= 4.62 ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1B | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1C | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1D | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1E | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1F | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1G | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1H | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1I | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1J | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1K | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1L | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1M | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1N | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1O | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 1P | 736 | -2854 | -8928 | 502 | -94 | -1769 | -5297 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.14 | 1.33 | 4.79 | 0.07 | 16.8 |
| 2 | 736 | -4222 | -13430 | 742 | -143 | -2616 | -7895 | 3.08 | 7.70 | 3.08 | 7.70 | 2 | 0.75 | 0.21 | 2.05 | 7.21 | 0.11 | 13.5 |

apost= --  aant= 4.62 ainf= --  asup= 4.62 staffe= 2 d  8 / 13.5  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 51**  NI 16165  NF 16169  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.8975  5.9670  16.8645  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | ---------- | | ---------- | ---------- | ---------- | ---------- | ---------- | ----- |
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -1474 | 2074 | 3 | 9 | 27 | -352 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -2466 | 3331 | -8 | 51 | 19 | -531 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1B | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1C | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1D | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1E | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1G | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1H | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1I | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1J | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1K | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1L | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1M | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1N | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1O | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 1P | 38 | -1474 | 1522 | 3 | 9 | 26 | 333 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |
| 2 | 38 | -2466 | 2450 | -8 | 51 | 22 | 570 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.63 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1B | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1C | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1D | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1E | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1F | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1G | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1H | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1I | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1J | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1K | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1L | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1M | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1N | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1O | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1P | 76 | -1474 | 971 | 3 | 9 | 25 | 808 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 2 | 76 | -2466 | 1570 | -8 | 51 | 25 | 1335 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1N | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | -1474 | 419 | 3 | 9 | 24 | 1072 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | -2466 | 689 | -8 | 51 | 28 | 1766 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1F | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | -1474 | -132 | 3 | 9 | 23 | 1127 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | -2466 | -191 | -8 | 51 | 31 | 1860 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1B | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | -1474 | -683 | 3 | 9 | 21 | 972 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.17 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | -2466 | -1072 | -8 | 51 | 34 | 1620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.04 | 0.35 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1L | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | -1474 | -1235 | 3 | 9 | 20 | 606 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | -2466 | -1953 | -8 | 51 | 37 | 1044 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1L | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | -1474 | -1786 | 3 | 9 | 19 | 30 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.01 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | -2466 | -2833 | -8 | 51 | 40 | 132 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.02 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1H | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | -1474 | -2338 | 3 | 9 | 18 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.12 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | -2466 | -3714 | -8 | 51 | 43 | -1115 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.16 | 0.11 | 1.02 | 2.80 | 0.08 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 343 | -1474 | -2890 | 3 | 9 | 17 | -1751 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.35 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 343 | -2466 | -4594 | -8 | 51 | 46 | -2697 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.53 | 0.14 | 1.23 | 3.46 | 0.08 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1B | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1C | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1D | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1E | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1F | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1G | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1H | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1I | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1J | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1K | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1L | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1M | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1O | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 1P | 381 | -1474 | -3441 | 3 | 9 | 15 | -2957 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.63 | 0.10 | 0.83 | 0.00 | 0.00 | 22.3 |
| 2 | 381 | -2466 | -5475 | -8 | 51 | 49 | -4615 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.97 | 0.16 | 1.45 | 4.13 | 0.08 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 52** NI 16169 NF 16173 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.8250 5.9670 15.7920 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -1175 | 3073 | 64 | -114 | 128 | -2635 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.56 | 0.11 | 0.99 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -2024 | 4976 | 110 | -176 | 222 | -4185 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.89 | 0.18 | 1.61 | 3.75 | 0.27 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1B | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1C | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1D | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1E | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1F | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1G | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1H | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1I | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1J | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1K | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1L | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1M | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1N | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1O | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1P | 39 | -1175 | 2546 | 64 | -114 | 103 | -1531 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.31 | 0.09 | 0.86 | 0.00 | 0.00 | 22.3 |
| 2 | 39 | -2024 | 4122 | 110 | -176 | 179 | -2397 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.48 | 0.15 | 1.40 | 3.11 | 0.27 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -1175 | 2019 | 64 | -114 | 78 | -634 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -2024 | 3269 | 110 | -176 | 136 | -945 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.14 | 0.13 | 1.20 | 2.46 | 0.27 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | -1175 | 1493 | 64 | -114 | 52 | 56 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.01 | 0.07 | 0.60 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | -2024 | 2415 | 110 | -176 | 92 | 172 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.02 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | -1175 | 966 | 64 | -114 | 27 | 539 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | -2024 | 1561 | 110 | -176 | 49 | 954 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1G | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | -1175 | 439 | 64 | -114 | 2 | 815 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | -2024 | 707 | 110 | -176 | 6 | 1400 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1C | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1O | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | -1175 | -88 | 64 | -114 | -23 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | -2024 | -146 | 110 | -176 | -37 | 1510 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | -1175 | -615 | 64 | -114 | -48 | 746 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | -2024 | -1000 | 110 | -176 | -81 | 1285 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.22 | 0.06 | 0.63 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | -1175 | -1141 | 64 | -114 | -73 | 401 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | -2024 | -1854 | 110 | -176 | -124 | 725 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.09 | 0.09 | 0.81 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1B | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1C | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1D | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1E | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1F | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1G | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1H | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1I | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1J | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1K | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1L | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1M | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1N | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1O | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1P | 354 | -1175 | -1668 | 64 | -114 | -99 | -152 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 2 | 354 | -2024 | -2707 | 110 | -176 | -167 | -171 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.11 | 1.07 | 2.04 | 0.27 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1B | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1C | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1D | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1E | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1F | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1G | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1H | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1I | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1J | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1K | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1L | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1M | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1N | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1O | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 1P | 393 | -1175 | -2195 | 64 | -114 | -124 | -911 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.08 | 0.78 | 0.00 | 0.00 | 22.3 |
| 2 | 393 | -2024 | -3561 | 110 | -176 | -210 | -1403 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.25 | 0.14 | 1.27 | 2.69 | 0.27 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 53**  NI 16173  NF 16177  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -748 | 2184 | -151 | -5 | -272 | -843 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -1345 | 3507 | -254 | -3 | -455 | -1296 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.25 | 0.10 | 0.82 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1B | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1C | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1D | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1E | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1F | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1G | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1H | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1I | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1K | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1L | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1M | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1N | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1O | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1P | 37 | -748 | 1714 | -151 | -5 | -217 | -126 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.04 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |
| 2 | 37 | -1345 | 2748 | -254 | -3 | -361 | -144 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.06 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | -748 | 1244 | -151 | -5 | -161 | 419 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -1345 | 1988 | -254 | -3 | -268 | 728 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.12 | 0.06 | 0.43 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1B | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | -748 | 774 | -151 | -5 | -105 | 791 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | -1345 | 1229 | -254 | -3 | -174 | 1320 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.25 | 0.04 | 0.27 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1J | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | -748 | 304 | -151 | -5 | -50 | 989 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | -1345 | 469 | -254 | -3 | -81 | 1633 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | -748 | -165 | -151 | -5 | 6 | 1015 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.01 | 0.05 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | -1345 | -290 | -254 | -3 | 13 | 1666 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.33 | 0.01 | 0.07 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1P | 221 | -748 | -635 | -151 | -5 | 62 | 867 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | -1345 | -1049 | -254 | -3 | 106 | 1420 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.28 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 258 | -748 | -1105 | -151 | -5 | 117 | 547 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.10 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | -1345 | -1809 | -254 | -3 | 200 | 894 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.15 | 0.05 | 0.40 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | -748 | -1575 | -151 | -5 | 173 | 53 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | -1345 | -2568 | -254 | -3 | 294 | 88 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1C | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1J | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 331 | -748 | -2045 | -151 | -5 | 229 | -613 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.06 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 331 | -1345 | -3328 | -254 | -3 | 387 | -997 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.09 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1B | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1C | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1D | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1E | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1F | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1G | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1H | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1I | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1J | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1K | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1L | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1M | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1N | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1O | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1P | 368 | -748 | -2515 | -151 | -5 | 284 | -1453 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 2 | 368 | -1345 | -4087 | -254 | -3 | 481 | -2362 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.12 | 0.96 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 54**  NI 16177  NF 16181  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1B | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1C | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1D | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1E | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1F | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1G | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1H | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1I | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1J | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1K | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1L | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1M | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1N | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1O | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 1P | 0 | -191 | 2436 | 147 | -286 | 261 | -1137 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.13 | 1.23 | 1.84 | 0.44 | 22.3 |
| 2 | 0 | -403 | 3931 | 230 | -466 | 414 | -1828 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.21 | 2.01 | 2.96 | 0.72 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1B | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1C | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1D | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1E | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1F | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1G | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1H | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1I | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1J | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1K | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1L | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1M | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1N | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1O | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 1P | 36 | -191 | 1974 | 147 | -286 | 208 | -340 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.13 | 1.49 | 0.44 | 22.3 |
| 2 | 36 | -403 | 3185 | 230 | -466 | 331 | -541 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.18 | 1.84 | 2.40 | 0.72 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1B | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1C | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1D | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1E | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1F | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1G | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1H | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1I | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1J | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1K | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1L | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1M | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1N | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1O | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 1P | 72 | -191 | 1513 | 147 | -286 | 155 | 291 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.10 | 1.02 | 1.14 | 0.44 | 22.3 |
| 2 | 72 | -403 | 2439 | 230 | -466 | 248 | 475 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.09 | 0.16 | 1.66 | 1.84 | 0.72 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | -191 | 1051 | 147 | -286 | 102 | 754 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | -403 | 1694 | 230 | -466 | 165 | 1223 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.14 | 1.49 | 1.28 | 0.72 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | -191 | 590 | 147 | -286 | 49 | 1051 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.07 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | -403 | 948 | 230 | -466 | 82 | 1700 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.12 | 1.33 | 0.71 | 0.72 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1K | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | -191 | 128 | 147 | -286 | -4 | 1180 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.72 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | -403 | 202 | 230 | -466 | -1 | 1908 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.43 | 0.10 | 1.17 | 0.24 | 0.72 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | -191 | -334 | 147 | -286 | -57 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.26 | 0.07 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | -403 | -544 | 230 | -466 | -84 | 1846 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.11 | 1.24 | 0.41 | 0.72 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1B | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1C | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1D | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1E | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1F | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1G | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1H | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1I | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1J | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1K | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1L | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1M | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1N | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1O | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 1P | 253 | -191 | -795 | 147 | -286 | -110 | 939 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.21 | 0.08 | 0.86 | 0.00 | 0.00 | 22.3 |
| 2 | 253 | -403 | -1290 | 230 | -466 | -168 | 1515 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.34 | 0.13 | 1.40 | 0.97 | 0.72 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1B | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1C | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1D | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1E | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1F | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1G | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1H | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1I | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1J | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1K | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1L | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1N | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1O | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1P | 289 | -191 | -1257 | 147 | -286 | -163 | 568 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.12 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 2 | 289 | -403 | -2035 | 230 | -466 | -251 | 913 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.15 | 1.57 | 1.53 | 0.72 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1B | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1C | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1D | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1E | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1F | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1G | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1H | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1I | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1J | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1K | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1L | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1M | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1N | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1O | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 1P | 325 | -191 | -1718 | 147 | -286 | -216 | 30 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.06 | 0.11 | 1.07 | 1.30 | 0.44 | 22.3 |
| 2 | 325 | -403 | -2781 | 230 | -466 | -334 | 43 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.09 | 0.17 | 1.73 | 2.10 | 0.72 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1B | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1C | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1D | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1E | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1F | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1G | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1H | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1I | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1J | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1K | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1L | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1M | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1N | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1O | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 1P | 362 | -191 | -2180 | 147 | -286 | -269 | -675 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.15 | 0.12 | 1.18 | 1.64 | 0.44 | 22.3 |
| 2 | 362 | -403 | -3527 | 230 | -466 | -417 | -1098 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.19 | 1.92 | 2.66 | 0.72 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 55**  NI 15541  NF 16160  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  13.0425  5.6610  21.7035  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1B | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1C | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1D | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1E | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1F | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1G | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1H | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1I | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1J | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1K | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1L | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1M | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1N | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1O | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 1P | 0 | -1489 | 5042 | -317 | -578 | -506 | -4095 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.89 | 0.26 | 2.57 | 3.80 | 0.89 | 18.0 |
| 2 | 0 | -2357 | 7714 | -440 | -827 | -705 | -6449 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.95 | 0.38 | 3.84 | 5.82 | 1.27 | 12.0 |

apost= 1.54 aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 12.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1B | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1C | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1D | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1E | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1F | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1G | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1H | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1I | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1J | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1K | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1L | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1M | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1O | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 1P | 37 | -1489 | 4324 | -317 | -578 | -389 | -2365 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.24 | 2.40 | 3.26 | 0.89 | 19.9 |
| 2 | 37 | -2357 | 6630 | -440 | -827 | -542 | -3800 | 4.62 | 4.62 | 3.08 | 4.62 | 2 | 0.79 | 0.35 | 3.58 | 5.00 | 1.27 | 13.3 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 13.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1B | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1C | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1D | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1E | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1F | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1G | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1H | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1I | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1J | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1K | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1L | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1M | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1N | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1O | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 1P | 74 | -1489 | 3606 | -317 | -578 | -272 | -900 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.15 | 0.22 | 2.23 | 2.72 | 0.89 | 22.3 |
| 2 | 74 | -2357 | 5545 | -440 | -827 | -379 | -1551 | 4.62 | 4.62 | 3.08 | 4.62 | 3 | 0.27 | 0.32 | 3.32 | 4.18 | 1.27 | 14.9 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 14.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1B | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1C | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1D | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1E | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1F | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1G | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1H | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1I | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1J | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1K | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1L | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1M | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1N | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1O | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 1P | 111 | -1489 | 2887 | -317 | -578 | -155 | 299 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.20 | 2.01 | 2.18 | 0.89 | 22.3 |
| 2 | 111 | -2357 | 4461 | -440 | -827 | -217 | 298 | 4.62 | 4.62 | 4.62 | 3.08 | 4 | 0.03 | 0.29 | 2.91 | 3.36 | 1.27 | 17.0 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 17.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1B | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1C | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1D | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1E | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1F | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1G | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1H | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1I | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1J | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1K | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1L | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1M | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1N | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1O | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 1P | 148 | -1489 | 2169 | -317 | -578 | -38 | 1233 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.85 | 1.64 | 0.89 | 22.3 |
| 2 | 148 | -2357 | 3377 | -440 | -827 | -54 | 1745 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.31 | 0.26 | 2.69 | 2.55 | 1.27 | 19.7 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 19.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1B | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1C | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1D | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1E | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1F | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1G | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1H | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1I | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1J | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1K | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1L | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1M | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1N | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1O | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 1P | 185 | -1489 | 1451 | -317 | -578 | 79 | 1902 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.16 | 1.70 | 1.09 | 0.89 | 22.3 |
| 2 | 185 | -2357 | 2292 | -440 | -827 | 108 | 2793 | 4.62 | 4.62 | 4.62 | 3.08 | 4 | 0.55 | 0.23 | 2.46 | 1.73 | 1.27 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1B | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1C | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1D | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1E | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1F | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1G | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1I | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1J | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1K | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1L | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1M | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1N | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1O | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 1P | 222 | -1489 | 733 | -317 | -578 | 196 | 2306 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.48 | 0.14 | 1.54 | 0.55 | 0.89 | 22.3 |
| 2 | 222 | -2357 | 1208 | -440 | -827 | 271 | 3439 | 4.62 | 4.62 | 4.62 | 3.08 | 3 | 0.70 | 0.20 | 2.23 | 0.91 | 1.27 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1B | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1C | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1D | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1E | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1F | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1G | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1H | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1I | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1J | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1K | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1L | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1M | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1N | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1O | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 1P | 259 | -1489 | 15 | -317 | -578 | 313 | 2444 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.51 | 0.13 | 1.45 | 0.33 | 0.89 | 22.3 |
| 2 | 259 | -2357 | 124 | -440 | -827 | 434 | 3685 | 4.62 | 4.62 | 4.62 | 3.08 | 3 | 0.76 | 0.18 | 2.08 | 0.45 | 1.27 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1B | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1C | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1D | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1E | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1F | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1G | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1H | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1I | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1J | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1K | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1L | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1M | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1N | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1O | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 1P | 296 | -1489 | -704 | -317 | -578 | 430 | 2316 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.48 | 0.14 | 1.54 | 0.53 | 0.89 | 22.3 |
| 2 | 296 | -2357 | -960 | -440 | -827 | 596 | 3531 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.73 | 0.19 | 2.18 | 0.72 | 1.27 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1B | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1C | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1D | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1E | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1F | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1G | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1H | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1I | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1J | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1K | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1L | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1M | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1N | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1O | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 1P | 333 | -1489 | -1422 | -317 | -578 | 547 | 1924 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.39 | 0.16 | 1.69 | 1.07 | 0.89 | 22.3 |
| 2 | 333 | -2357 | -2045 | -440 | -827 | 759 | 2976 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.60 | 0.22 | 2.41 | 1.54 | 1.27 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1B | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1C | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1D | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1E | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1F | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1G | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1H | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1I | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1J | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1K | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1L | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1M | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1N | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1O | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 1P | 369 | -1489 | -2140 | -317 | -578 | 664 | 1266 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.18 | 1.84 | 1.61 | 0.89 | 22.3 |
| 2 | 369 | -2357 | -3129 | -440 | -827 | 922 | 2020 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.38 | 0.26 | 2.64 | 2.36 | 1.27 | 20.5 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 20.5  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 56**  NI 16160  NF 16164  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 12.5490 5.4468 20.9958 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -1382 | 3039 | -174 | -75 | -301 | -181 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -2141 | 4665 | -213 | -133 | -368 | -371 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.05 | 0.16 | 1.44 | 3.52 | 0.21 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 36 | -1382 | 2370 | -174 | -75 | -239 | 780 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 36 | -2141 | 3657 | -213 | -133 | -293 | 1107 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.17 | 0.13 | 1.09 | 2.76 | 0.21 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | -1382 | 1702 | -174 | -75 | -177 | 1504 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.29 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | -2141 | 2648 | -213 | -133 | -217 | 2227 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.43 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | -1382 | 1033 | -174 | -75 | -116 | 1990 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.41 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | -2141 | 1640 | -213 | -133 | -141 | 2989 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.61 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | -1382 | 365 | -174 | -75 | -54 | 2238 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | -2141 | 631 | -213 | -133 | -66 | 3392 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.70 | 0.04 | 0.45 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | -1382 | -304 | -174 | -75 | 8 | 2249 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.47 | 0.02 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | -2141 | -377 | -213 | -133 | 10 | 3438 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.71 | 0.04 | 0.40 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | -1382 | -973 | -174 | -75 | 70 | 2022 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.04 | 0.39 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | -2141 | -1386 | -213 | -133 | 86 | 3124 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.64 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | -1382 | -1641 | -174 | -75 | 131 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | -2141 | -2394 | -213 | -133 | 161 | 2453 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | -1382 | -2310 | -174 | -75 | 193 | 856 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.14 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 284 | -2141 | -3403 | -213 | -133 | 237 | 1423 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.25 | 0.12 | 1.04 | 2.57 | 0.21 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1B | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1C | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1D | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1E | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1F | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1G | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1H | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1I | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1J | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1K | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1L | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1M | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1N | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1O | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 1P | 320 | -1382 | -2978 | -174 | -75 | 255 | -83 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.03 | 0.10 | 0.88 | 0.00 | 0.00 | 22.3 |
| 2 | 320 | -2141 | -4412 | -213 | -133 | 313 | 35 | 4.62 | 3.08 | 4.62 | 3.08 | 6 | 0.04 | 0.15 | 1.25 | 3.33 | 0.21 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1B | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1C | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1D | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1E | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1F | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1G | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1H | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1I | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1J | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1K | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1L | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1M | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1N | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1O | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 1P | 355 | -1382 | -3647 | -174 | -75 | 317 | -1260 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.12 | 1.03 | 2.75 | 0.12 | 22.3 |
| 2 | 355 | -2141 | -5420 | -213 | -133 | 388 | -1712 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.31 | 0.18 | 1.62 | 4.09 | 0.21 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 57** NI 16164 NF 16168 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.8975 5.9670 16.8645 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1B | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1C | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1D | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1E | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1F | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1G | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1H | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1I | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1J | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1K | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1L | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1M | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1N | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1O | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 1P | 0 | -1099 | 2455 | 134 | 188 | 265 | -1054 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.11 | 1.02 | 1.85 | 0.29 | 22.3 |
| 2 | 0 | -1675 | 3978 | 189 | 267 | 372 | -1733 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.34 | 0.17 | 1.58 | 3.00 | 0.41 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1B | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1C | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1D | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1E | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1F | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1G | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1H | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1I | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1J | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1K | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1L | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1M | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1N | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1O | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1P | 38 | -1099 | 1903 | 134 | 188 | 213 | -224 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.89 | 0.00 | 0.00 | 22.3 |
| 2 | 38 | -1675 | 3097 | 189 | 267 | 300 | -385 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.37 | 2.34 | 0.41 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1B | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1C | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1D | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1E | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1F | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1G | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1H | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1I | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1J | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1K | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1L | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1M | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1N | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1O | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 1P | 76 | -1099 | 1352 | 134 | 188 | 162 | 396 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |
| 2 | 76 | -1675 | 2217 | 189 | 267 | 228 | 627 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.12 | 1.11 | 1.67 | 0.41 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1N | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | -1099 | 800 | 134 | 188 | 111 | 806 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.14 | 0.06 | 0.62 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | -1675 | 1336 | 189 | 267 | 156 | 1304 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.24 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | -1099 | 249 | 134 | 188 | 60 | 1006 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | -1675 | 456 | 189 | 267 | 84 | 1645 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | -1099 | -302 | 134 | 188 | 8 | 996 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | -1675 | -425 | 189 | 267 | 12 | 1651 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.07 | 0.73 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | -1099 | -854 | 134 | 188 | -43 | 775 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | -1675 | -1306 | 189 | 267 | -60 | 1322 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.24 | 0.09 | 0.92 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | -1099 | -1405 | 134 | 188 | -94 | 345 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.04 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | -1675 | -2186 | 189 | 267 | -132 | 657 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.09 | 0.12 | 1.11 | 1.65 | 0.41 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1H | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | -1099 | -1957 | 134 | 188 | -145 | -296 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | -1675 | -3067 | 189 | 267 | -204 | -344 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.14 | 1.36 | 2.31 | 0.41 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1B | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1C | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1D | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1E | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1F | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1G | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1H | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1I | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1J | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1K | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1L | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1M | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1N | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1O | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 1P | 343 | -1099 | -2509 | 134 | 188 | -196 | -1146 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.11 | 1.03 | 1.89 | 0.29 | 22.3 |
| 2 | 343 | -1675 | -3947 | 189 | 267 | -277 | -1680 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.32 | 0.17 | 1.57 | 2.98 | 0.41 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1B | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1C | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1D | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1E | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1F | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1G | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1H | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1I | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1J | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1K | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1L | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1M | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1N | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1O | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 1P | 381 | -1099 | -3060 | 134 | 188 | -248 | -2207 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.47 | 0.12 | 1.16 | 2.31 | 0.29 | 22.3 |
| 2 | 381 | -1675 | -4828 | 189 | 267 | -349 | -3351 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.71 | 0.19 | 1.78 | 3.64 | 0.41 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 58**  NI 16168  NF 16172  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.8250  5.9670  15.7920  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -785 | 2699 | 203 | -14 | 397 | -1859 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.40 | 0.08 | 0.65 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -1180 | 4378 | 326 | -34 | 639 | -2955 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.64 | 0.13 | 1.10 | 3.30 | 0.05 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1B | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1C | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1D | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1E | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1F | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1G | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1H | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1I | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1J | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1K | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1L | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1M | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1N | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1O | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 1P | 39 | -785 | 2172 | 203 | -14 | 317 | -902 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.18 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |
| 2 | 39 | -1180 | 3524 | 326 | -34 | 510 | -1402 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.28 | 0.11 | 0.90 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -785 | 1645 | 203 | -14 | 237 | -152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -1180 | 2671 | 326 | -34 | 382 | -185 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.08 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1O | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | -785 | 1119 | 202 | -14 | 158 | 392 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.03 | 0.28 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | -1180 | 1817 | 326 | -34 | 254 | 697 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.06 | 0.47 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | -785 | 592 | 203 | -14 | 78 | 728 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | -1180 | 963 | 326 | -34 | 126 | 1243 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.24 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1G | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | -785 | 65 | 203 | -14 | -1 | 857 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | -1180 | 109 | 326 | -34 | -2 | 1454 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.29 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1C | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1O | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | -785 | -462 | 203 | -14 | -81 | 779 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.02 | 0.13 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | -1180 | -744 | 326 | -34 | -130 | 1330 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.26 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | -785 | -989 | 203 | -14 | -161 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | -1180 | -1598 | 326 | -34 | -258 | 869 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.16 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1I | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | -785 | -1515 | 202 | -14 | -240 | 2 | 3.08 | 4.62 | 4.62 | 3.08 | 6 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | -1180 | -2452 | 326 | -34 | -386 | 74 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.08 | 0.61 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1B | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1C | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1D | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1E | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1F | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1G | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1H | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1I | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1J | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1K | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1L | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1M | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1N | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1O | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1P | 354 | -785 | -2042 | 202 | -14 | -320 | -697 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.13 | 0.06 | 0.50 | 0.00 | 0.00 | 22.3 |
| 2 | 354 | -1180 | -3305 | 326 | -34 | -514 | -1057 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.85 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1B | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1C | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1D | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1E | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1F | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1G | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1H | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1I | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1J | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1K | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1L | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1M | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1N | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1O | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1P | 393 | -785 | -2569 | 203 | -14 | -399 | -1603 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.08 | 0.62 | 0.00 | 0.00 | 22.3 |
| 2 | 393 | -1180 | -4159 | 326 | -34 | -643 | -2524 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.54 | 0.12 | 1.05 | 3.14 | 0.05 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 59**  NI 16172  NF 16176  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -592 | 2411 | 19 | 89 | 39 | -1272 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.27 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -879 | 3898 | 21 | 153 | 44 | -2038 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.44 | 0.14 | 1.26 | 2.94 | 0.24 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1B | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1C | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1D | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1E | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1F | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1G | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1H | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1I | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1J | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1K | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1L | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1M | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1N | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1O | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1P | 37 | -592 | 1941 | 19 | 89 | 32 | -471 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 2 | 37 | -879 | 3139 | 21 | 153 | 36 | -743 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.14 | 0.12 | 1.09 | 2.37 | 0.24 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | -592 | 1471 | 19 | 89 | 25 | 158 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -879 | 2379 | 21 | 153 | 29 | 273 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.03 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1B | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | -592 | 1001 | 19 | 89 | 18 | 613 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | -879 | 1620 | 21 | 153 | 21 | 1009 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.08 | 0.72 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1J | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | -592 | 531 | 19 | 89 | 10 | 895 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.03 | 0.33 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | -879 | 860 | 21 | 153 | 13 | 1466 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | -592 | 62 | 19 | 89 | 3 | 1004 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | -879 | 101 | 21 | 153 | 5 | 1643 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.03 | 0.39 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1D | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 221 | -592 | -408 | 19 | 89 | -4 | 941 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.03 | 0.30 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | -879 | -658 | 21 | 153 | -3 | 1540 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 258 | -592 | -878 | 19 | 89 | -11 | 704 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | -879 | -1418 | 21 | 153 | -10 | 1158 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1L | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | -592 | -1348 | 19 | 89 | -18 | 294 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.05 | 0.06 | 0.51 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | -879 | -2177 | 21 | 153 | -18 | 496 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.09 | 0.84 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1B | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1C | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1D | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1E | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1F | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1G | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1H | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1I | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1J | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1K | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1L | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1M | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1N | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1O | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 1P | 331 | -592 | -1818 | 19 | 89 | -25 | -289 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.04 | 0.07 | 0.63 | 0.00 | 0.00 | 22.3 |
| 2 | 331 | -879 | -2937 | 21 | 153 | -26 | -445 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.07 | 0.11 | 1.04 | 2.21 | 0.24 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1B | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1C | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1D | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1E | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1F | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1G | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1H | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1I | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1J | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1K | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1L | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1M | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1N | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1O | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1P | 368 | -592 | -2288 | 19 | 89 | -32 | -1045 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 22.3 |
| 2 | 368 | -879 | -3696 | 21 | 153 | -34 | -1666 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.14 | 1.22 | 2.79 | 0.24 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 60** NI 16176 NF 16180 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | cmq | | | | | | | | | | |
| 1A | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -420 | 1880 | 328 | 104 | 587 | -151 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.17 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -627 | 3040 | 536 | 181 | 958 | -243 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.28 | 0.12 | 1.13 | 2.29 | 0.28 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1B | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1C | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1D | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1E | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1F | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1G | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1H | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1I | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1J | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1K | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1L | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1M | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1N | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1O | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1P | 36 | -420 | 1418 | 328 | 104 | 468 | 446 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.06 | 0.56 | 0.00 | 0.00 | 22.3 |
| 2 | 36 | -627 | 2294 | 536 | 181 | 764 | 721 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.10 | 0.94 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1B | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1C | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1D | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1E | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1F | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1G | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1H | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1I | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1J | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1K | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1L | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1M | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1N | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1O | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1P | 72 | -420 | 957 | 328 | 104 | 349 | 875 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 2 | 72 | -627 | 1548 | 536 | 181 | 570 | 1416 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.08 | 0.77 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | -420 | 495 | 328 | 104 | 231 | 1137 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | -627 | 803 | 536 | 181 | 376 | 1841 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.40 | 0.06 | 0.61 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | -420 | 34 | 328 | 104 | 112 | 1233 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | -627 | 57 | 536 | 181 | 182 | 1996 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.05 | 0.55 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1K | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | -420 | -428 | 328 | 104 | -7 | 1161 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.25 | 0.03 | 0.34 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | -627 | -689 | 536 | 181 | -11 | 1882 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1G | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | -420 | -890 | 328 | 104 | -125 | 923 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.05 | 0.45 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | -627 | -1435 | 536 | 181 | -205 | 1498 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.32 | 0.08 | 0.75 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 253 | -420 | -1351 | 328 | 104 | -244 | 518 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 253 | -627 | -2181 | 536 | 181 | -399 | 844 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.10 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1B | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1C | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1D | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1E | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1F | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1G | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1H | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1I | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1J | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1K | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1L | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1M | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1N | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1O | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 1P | 289 | -420 | -1813 | 328 | 104 | -363 | -54 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.10 | 0.07 | 0.66 | 0.00 | 0.00 | 22.3 |
| 2 | 289 | -627 | -2926 | 536 | 181 | -593 | -79 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.16 | 0.12 | 1.10 | 2.21 | 0.28 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 325 | -420 | -2274 | 328 | 104 | -481 | -793 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 325 | -627 | -3672 | 536 | 181 | -787 | -1272 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.14 | 1.27 | 2.77 | 0.28 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1B | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1C | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1D | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1E | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1F | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1G | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1H | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1I | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1J | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1K | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1L | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1M | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1N | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1O | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1P | 362 | -420 | -2736 | 328 | 104 | -600 | -1699 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.10 | 0.87 | 0.00 | 0.00 | 22.3 |
| 2 | 362 | -627 | -4418 | 536 | 181 | -981 | -2735 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.61 | 0.16 | 1.44 | 3.33 | 0.28 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 63**  NI 16163  NF 16167  SEZ.  Rp  B= 40.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.0000  7.8975  5.9670  17.8645  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -512 | 3165 | 139 | 200 | 332 | -1681 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.37 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -817 | 5214 | 165 | 285 | 413 | -3049 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.67 | 0.15 | 1.30 | 3.93 | 0.31 | 16.8 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1B | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1C | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1D | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1E | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1F | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1G | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1H | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1I | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1J | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1K | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1L | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1M | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1N | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1O | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1P | 38 | -512 | 2575 | 139 | 200 | 279 | -1063 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.22 | 0.08 | 0.73 | 0.00 | 0.00 | 16.8 |
| 2 | 38 | -817 | 4284 | 165 | 285 | 350 | -2022 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.43 | 0.13 | 1.15 | 3.23 | 0.31 | 16.8 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1B | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1C | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1D | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1E | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1G | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1H | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1I | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1J | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1K | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1L | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1M | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1N | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1O | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1P | 76 | -512 | 1986 | 139 | 200 | 227 | -194 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.03 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 2 | 76 | -817 | 3354 | 165 | 285 | 288 | -567 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.10 | 0.11 | 0.99 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1B | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1C | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1D | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1E | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1F | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1G | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1H | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1I | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1J | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1K | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1L | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1M | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1N | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1O | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1P | 114 | -512 | 1396 | 139 | 200 | 174 | 451 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.05 | 0.53 | 0.00 | 0.00 | 16.8 |
| 2 | 114 | -817 | 2424 | 165 | 285 | 225 | 534 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.09 | 0.09 | 0.83 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1D | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1I | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 152 | -512 | 807 | 139 | 200 | 121 | 870 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.18 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 152 | -817 | 1494 | 165 | 285 | 162 | 1280 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.26 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1B | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1C | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1D | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1E | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1F | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1G | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1H | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1I | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1J | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1K | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1L | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1M | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1N | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1O | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1P | 190 | -512 | 217 | 139 | 200 | 68 | 1065 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |
| 2 | 190 | -817 | 564 | 165 | 285 | 99 | 1672 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.35 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1B | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1C | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1D | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1E | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1F | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1G | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1H | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1I | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1J | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1K | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1L | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1M | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1N | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1O | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1P | 229 | -512 | -373 | 138 | 200 | 16 | 1036 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 2 | 229 | -817 | -367 | 165 | 285 | 36 | 1710 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.04 | 0.48 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1B | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1C | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1D | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1E | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1F | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1G | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1H | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1I | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1J | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1K | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1L | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1M | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1N | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1O | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1P | 267 | -512 | -962 | 138 | 200 | -37 | 782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 2 | 267 | -817 | -1297 | 165 | 285 | -26 | 1393 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1B | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1C | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1D | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1E | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1F | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1G | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1H | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1I | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1J | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1K | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1L | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1M | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1N | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1O | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1P | 305 | -512 | -1552 | 138 | 200 | -90 | 303 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.06 | 0.55 | 0.00 | 0.00 | 16.8 |
| 2 | 305 | -817 | -2227 | 165 | 285 | -89 | 722 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.13 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1B | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1C | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1D | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1E | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1F | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1G | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1H | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1I | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1J | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1K | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1L | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1M | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1N | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1O | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1P | 343 | -512 | -2141 | 138 | 200 | -143 | -400 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.07 | 0.07 | 0.65 | 0.00 | 0.00 | 16.8 |
| 2 | 343 | -817 | -3157 | 165 | 285 | -152 | -303 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.04 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1B | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1C | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1D | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1E | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1F | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1G | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1H | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1I | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1J | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1K | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1L | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1M | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1N | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1O | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1P | 381 | -512 | -2731 | 139 | 200 | -195 | -918 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.19 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 2 | 381 | -817 | -4087 | 165 | 285 | -215 | -1070 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.21 | 0.12 | 1.11 | 3.08 | 0.31 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 64**  NI 16167  NF 16171  SEZ.  Rp  B= 40.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.0000  6.8250  5.9670  16.7920  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -232 | 2477 | 254 | 17 | 471 | -729 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.16 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -261 | 4034 | 422 | 17 | 787 | -1282 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.70 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1B | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1C | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1D | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1E | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1F | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1G | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1H | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1I | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1J | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1K | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1L | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1M | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1N | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1O | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1P | 39 | -232 | 1911 | 254 | 17 | 371 | -239 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |
| 2 | 39 | -261 | 3129 | 422 | 17 | 621 | -480 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.13 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1B | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1C | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1D | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1E | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1F | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1G | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1H | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1I | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1J | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1K | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1L | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1M | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1N | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1O | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1P | 79 | -232 | 1345 | 254 | 17 | 272 | 401 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |
| 2 | 79 | -261 | 2224 | 422 | 17 | 456 | 572 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.12 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1B | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1C | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1D | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1E | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1F | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1G | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1H | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1I | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1J | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1K | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1L | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1M | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1N | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1O | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1P | 118 | -232 | 779 | 254 | 17 | 172 | 818 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 2 | 118 | -261 | 1320 | 422 | 17 | 290 | 1268 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.28 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1B | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1C | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1D | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1E | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1F | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1G | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1H | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1I | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1J | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1K | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1L | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1M | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1N | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1P | 157 | -232 | 213 | 254 | 17 | 72 | 1012 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 2 | 157 | -261 | 415 | 422 | 17 | 124 | 1609 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.36 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -232 | -354 | 254 | 17 | -28 | 984 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -261 | -490 | 422 | 17 | -41 | 1594 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1B | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1C | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1D | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1E | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1F | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1G | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1H | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1I | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1J | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1K | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1L | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1M | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1N | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1O | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 1P | 236 | -232 | -920 | 254 | 17 | -128 | 734 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |
| 2 | 236 | -261 | -1395 | 422 | 17 | -207 | 1224 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.27 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1B | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1C | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1D | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1E | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1F | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1G | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1H | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1I | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1J | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1K | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1L | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1M | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1N | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1O | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1P | 275 | -232 | -1486 | 254 | 17 | -228 | 261 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.05 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 2 | 275 | -261 | -2300 | 422 | 17 | -373 | 498 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.10 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1B | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1C | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1D | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1E | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1F | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1G | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1H | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1I | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1J | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1K | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1L | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1M | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1N | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1O | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1P | 314 | -232 | -2052 | 254 | 17 | -328 | -434 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.05 | 0.37 | 0.00 | 0.00 | 16.8 |
| 2 | 314 | -261 | -3204 | 422 | 17 | -538 | -584 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1B | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1C | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1D | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1E | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1F | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1G | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1H | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1J | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1K | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1L | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1M | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1N | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1O | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1P | 354 | -232 | -2618 | 254 | 17 | -428 | -1352 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.30 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 2 | 354 | -261 | -4109 | 422 | 17 | -704 | -2021 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.46 | 0.09 | 0.72 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1B | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1C | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1D | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1E | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1F | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1G | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1H | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1I | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1J | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1K | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1L | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1M | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1N | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1O | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1P | 393 | -232 | -3184 | 254 | 17 | -528 | -2014 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.45 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 2 | 393 | -261 | -5014 | 422 | 17 | -870 | -3062 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.70 | 0.11 | 0.87 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 65**  NI 16171  NF 16175  SEZ.  Rp  B= 40.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.0000  6.4050  5.5998  16.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -73 | 2312 | -169 | 62 | -298 | -694 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -14 | 3776 | -290 | 115 | -512 | -1254 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1B | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1C | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1D | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1E | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1F | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1G | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1H | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1I | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1J | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1K | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1L | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1M | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1N | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1O | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1P | 37 | -73 | 1805 | -169 | 62 | -236 | -283 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.06 | 0.05 | 0.39 | 0.00 | 0.00 | 16.8 |
| 2 | 37 | -14 | 2969 | -290 | 115 | -405 | -578 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.13 | 0.08 | 0.67 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1B | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1C | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1D | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1E | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1F | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1G | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1H | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1I | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1K | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1L | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1M | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1N | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1O | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1P | 74 | -73 | 1298 | -169 | 62 | -173 | 288 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 2 | 74 | -14 | 2161 | -290 | 115 | -298 | 366 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.08 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1B | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1C | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1D | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1E | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1F | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1G | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1H | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1I | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1J | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1K | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1L | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1M | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1N | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1O | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 1P | 110 | -73 | 792 | -169 | 62 | -111 | 673 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |
| 2 | 110 | -14 | 1354 | -290 | 115 | -191 | 1013 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1B | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1C | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1D | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1E | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1F | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1G | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1H | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1I | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1J | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1K | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1L | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1M | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1N | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1O | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 1P | 147 | -73 | 285 | -169 | 62 | -49 | 871 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.14 | 0.00 | 0.00 | 16.8 |
| 2 | 147 | -14 | 547 | -290 | 115 | -84 | 1363 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.31 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1B | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1C | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1D | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1E | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1F | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1G | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1H | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1I | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1J | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1K | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1L | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1M | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1N | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1O | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1P | 184 | -73 | -222 | -169 | 62 | 14 | 883 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 2 | 184 | -14 | -260 | -290 | 115 | 23 | 1415 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.02 | 0.22 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 221 | -73 | -729 | -169 | 62 | 76 | 708 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.16 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 221 | -14 | -1068 | -290 | 115 | 130 | 1171 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.04 | 0.35 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1B | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1C | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1E | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1F | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1G | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1H | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1I | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1J | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1K | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1L | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1M | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1N | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1O | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1P | 258 | -73 | -1236 | -169 | 62 | 138 | 346 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.08 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 2 | 258 | -14 | -1875 | -290 | 115 | 236 | 629 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 295 | -73 | -1742 | -169 | 62 | 200 | -202 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.04 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 2 | 295 | -14 | -2682 | -290 | 115 | 343 | -210 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.08 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1B | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1C | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1D | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1E | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1F | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1G | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1H | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1I | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1J | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1K | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1L | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1M | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1N | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1O | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1P | 331 | -73 | -2249 | -169 | 62 | 263 | -937 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.06 | 0.47 | 0.00 | 0.00 | 16.8 |
| 2 | 331 | -14 | -3490 | -290 | 115 | 450 | -1346 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.31 | 0.09 | 0.75 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1B | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1C | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1D | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1E | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1F | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1G | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1H | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1I | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1J | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1K | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1L | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1M | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1N | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1O | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 1P | 368 | -73 | -2756 | -169 | 62 | 325 | -1445 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |
| 2 | 368 | -14 | -4297 | -290 | 115 | 557 | -2135 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.49 | 0.11 | 0.89 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 66** NI 16175 NF 16179 SEZ. Rp B= 40.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.0000 6.4050 5.5998 16.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | 96 | 1357 | 385 | 302 | 771 | 767 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | 250 | 2254 | 637 | 509 | 1275 | 1066 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.11 | 1.12 | 1.70 | 0.55 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1B | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1C | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1D | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1E | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1F | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1G | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1H | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1I | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1J | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1K | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1L | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1M | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1N | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1O | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1P | 36 | 96 | 859 | 385 | 302 | 632 | 1167 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 2 | 36 | 250 | 1461 | 637 | 509 | 1045 | 1738 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.41 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1B | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1C | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1D | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1E | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1F | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1G | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1H | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1I | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1J | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1K | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1L | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1M | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1N | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1O | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1P | 72 | 96 | 361 | 385 | 302 | 493 | 1388 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 2 | 72 | 250 | 668 | 637 | 509 | 814 | 2123 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.50 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1B | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1C | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1D | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1E | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1F | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1G | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1H | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1I | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1J | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1K | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1L | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1M | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1N | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1O | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1P | 108 | 96 | -136 | 385 | 302 | 353 | 1429 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 2 | 108 | 250 | -124 | 637 | 509 | 584 | 2221 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.52 | 0.08 | 0.84 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1B | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1C | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1D | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1E | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1F | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1G | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1H | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1I | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1J | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1K | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1L | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1M | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1N | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1O | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 1P | 145 | 96 | -634 | 385 | 302 | 214 | 1289 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.05 | 0.54 | 0.00 | 0.00 | 16.8 |
| 2 | 145 | 250 | -917 | 637 | 509 | 353 | 2033 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.48 | 0.08 | 0.89 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1B | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1C | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1D | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1E | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1F | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1G | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1H | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1I | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1J | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1K | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1L | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1M | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1N | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1O | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1P | 181 | 96 | -1132 | 385 | 302 | 75 | 970 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.06 | 0.63 | 0.00 | 0.00 | 16.8 |
| 2 | 181 | 250 | -1710 | 637 | 509 | 123 | 1558 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.37 | 0.10 | 1.02 | 1.29 | 0.55 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1B | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1C | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1D | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1E | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1F | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1G | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1H | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1I | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1J | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1K | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1L | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1M | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1N | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1O | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 1P | 217 | 96 | -1630 | 385 | 302 | -65 | 471 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.11 | 0.07 | 0.71 | 0.00 | 0.00 | 16.8 |
| 2 | 217 | 250 | -2503 | 637 | 509 | -107 | 796 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.19 | 0.12 | 1.16 | 1.89 | 0.55 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1B | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1C | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1D | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1E | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1F | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1G | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1H | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1I | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1J | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1K | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1L | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1M | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1N | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1O | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1P | 253 | 96 | -2128 | 385 | 302 | -204 | -208 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.05 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 2 | 253 | 250 | -3296 | 637 | 509 | -338 | -252 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.09 | 0.13 | 1.29 | 2.48 | 0.55 | 16.8 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1B | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1C | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1D | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1E | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1F | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1G | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1H | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1I | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1J | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1K | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1L | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1M | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1N | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1O | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1P | 289 | 96 | -2625 | 385 | 302 | -343 | -1068 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.25 | 0.09 | 0.88 | 0.00 | 0.00 | 16.8 |
| 2 | 289 | 250 | -4088 | 637 | 509 | -568 | -1587 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.38 | 0.15 | 1.42 | 3.08 | 0.55 | 16.8 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1O | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 325 | 96 | -3123 | 385 | 302 | -483 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 325 | 250 | -4881 | 637 | 509 | -799 | -3209 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.75 | 0.17 | 1.56 | 3.68 | 0.55 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1B | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1C | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1D | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1E | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1F | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1G | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1H | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1I | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1J | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1K | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1L | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1M | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1N | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1O | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 1P | 362 | 96 | -3621 | 385 | 302 | -622 | -2783 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.65 | 0.11 | 1.05 | 2.73 | 0.33 | 16.8 |
| 2 | 362 | 250 | -5674 | 637 | 509 | -1029 | -4266 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.99 | 0.18 | 1.69 | 4.28 | 0.55 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 67**  NI 16179  NF 16183  SEZ.  Rp  B= 40.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.0000  3.5000  3.0600  10.5600  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1B | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1C | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1D | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1E | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1F | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1G | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1H | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1I | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1J | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1K | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1L | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1M | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1N | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1O | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1P | 0 | 281 | 217 | 389 | 876 | 882 | 1419 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 2 | 0 | 645 | 385 | 636 | 1281 | 1422 | 2180 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.53 | 0.17 | 1.96 | 0.48 | 1.39 | 16.8 |

apost= 3.08 aant= 1.54 ainf= 3.08 asup= 1.54 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1B | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1C | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1D | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1E | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1F | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1G | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1H | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1I | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1J | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1K | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1L | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1M | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1N | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1O | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 1P | 40 | 281 | -152 | 389 | 876 | 729 | 1432 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.34 | 0.12 | 1.34 | 0.29 | 0.95 | 16.8 |
| 2 | 40 | 645 | -182 | 636 | 1281 | 1170 | 2220 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.54 | 0.17 | 1.96 | 0.48 | 1.39 | 16.8 |

apost= 3.08 aant= 1.54 ainf= 3.08 asup= 1.54 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1B | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1C | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1D | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1E | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1F | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1G | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1H | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1I | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1J | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1K | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1L | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1M | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1O | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 1P | 79 | 281 | -522 | 389 | 876 | 575 | 1298 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.31 | 0.12 | 1.36 | 0.39 | 0.95 | 16.8 |
| 2 | 79 | 645 | -750 | 636 | 1281 | 919 | 2036 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.50 | 0.17 | 1.98 | 0.57 | 1.39 | 16.8 |

apost= 3.08 aant= 1.54 ainf= 3.08 asup= 1.54 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1B | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1C | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1D | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1E | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1F | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1G | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1H | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1I | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1J | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1K | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1L | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1M | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1N | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1O | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 1P | 119 | 281 | -891 | 389 | 876 | 421 | 1019 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.25 | 0.13 | 1.42 | 0.67 | 0.95 | 16.8 |
| 2 | 119 | 645 | -1317 | 636 | 1281 | 667 | 1627 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.40 | 0.19 | 2.08 | 0.99 | 1.39 | 16.8 |

apost= 3.08 aant= 1.54 ainf= 3.08 asup= 1.54 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1B | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1C | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1D | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1E | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1F | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1G | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1H | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1I | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1J | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1K | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1L | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1M | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1N | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1O | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 1P | 158 | 281 | -1261 | 389 | 876 | 267 | 593 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.15 | 0.13 | 1.48 | 0.95 | 0.95 | 16.8 |
| 2 | 158 | 645 | -1884 | 636 | 1281 | 416 | 993 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.26 | 0.20 | 2.17 | 1.42 | 1.39 | 16.8 |

apost= 3.08 aant= 1.54 ainf= 3.08 asup= 1.54 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1B | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1C | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1D | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1E | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1F | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1G | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1H | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1I | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1J | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1K | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1L | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1M | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1N | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1O | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 1P | 198 | 281 | -1630 | 389 | 876 | 113 | 22 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.04 | 0.14 | 1.54 | 1.23 | 0.95 | 16.8 |
| 2 | 198 | 645 | -2452 | 636 | 1281 | 164 | 136 | 6.16 | 4.62 | 6.16 | 4.62 | 2 | 0.06 | 0.21 | 2.27 | 1.85 | 1.39 | 16.8 |

apost= 3.08 aant= 1.54 ainf= 3.08 asup= 1.54 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1B | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1C | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1D | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1E | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1F | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1G | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1H | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1I | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1J | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1K | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1L | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1M | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1N | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1O | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 1P | 237 | 281 | -1999 | 389 | 876 | -40 | -696 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.17 | 0.15 | 1.61 | 1.51 | 0.95 | 16.8 |
| 2 | 237 | 645 | -3019 | 636 | 1281 | -88 | -947 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.24 | 0.22 | 2.36 | 2.28 | 1.39 | 16.8 |

apost= 1.54 aant= 3.08 ainf= 1.54 asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1B | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1C | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1D | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1E | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1F | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1G | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1I | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1J | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1K | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1L | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1M | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1N | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1O | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 1P | 277 | 281 | -2369 | 389 | 876 | -194 | -1560 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.37 | 0.16 | 1.67 | 1.79 | 0.95 | 16.8 |
| 2 | 277 | 645 | -3586 | 636 | 1281 | -339 | -2253 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.55 | 0.23 | 2.46 | 2.70 | 1.39 | 16.8 |

apost= 1.54 aant= 3.08 ainf= 1.54 asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1B | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1C | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1D | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1E | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1F | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1G | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1H | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1I | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1J | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1K | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1L | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1M | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1N | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1O | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 1P | 317 | 281 | -2738 | 389 | 876 | -348 | -2570 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.60 | 0.17 | 1.73 | 2.06 | 0.95 | 16.8 |
| 2 | 317 | 645 | -4153 | 636 | 1281 | -591 | -3784 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.90 | 0.25 | 2.55 | 3.13 | 1.39 | 16.8 |

apost= 1.54 aant= 3.08 ainf= 1.54 asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1B | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1C | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1D | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1E | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1F | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1G | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1H | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1I | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1J | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1K | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1L | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1M | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1N | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1O | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 1P | 356 | 281 | -3108 | 389 | 876 | -502 | -3727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.87 | 0.17 | 1.79 | 2.34 | 0.95 | 16.8 |
| 2 | 356 | 645 | -4721 | 636 | 1281 | -842 | -5540 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.88 | 0.26 | 2.65 | 3.56 | 1.39 | 15.9 |

apost= 1.54 aant= 3.08 ainf= 1.54 asup= 3.08 staffe= 2 d 8 / 15.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1B | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1C | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1D | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1E | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1F | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1G | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1H | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1I | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1J | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1K | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1L | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1M | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1N | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1O | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 1P | 396 | 281 | -3477 | 389 | 876 | -656 | -4507 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.71 | 0.18 | 1.85 | 2.62 | 0.95 | 16.8 |
| 2 | 396 | 645 | -5288 | 636 | 1281 | -1094 | -6727 | 4.62 | 6.16 | 4.62 | 6.16 | 2 | 0.80 | 0.27 | 2.74 | 3.99 | 1.39 | 14.9 |

apost= 1.54 aant= 3.08 ainf= 1.54 asup= 3.08 staffe= 2 d 8 / 14.9 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 68** NI 16183 NF 16187 SEZ. Rp B= 40.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.0000 3.5000 3.0600 10.5600 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1B | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1C | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1D | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1E | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1F | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1G | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1H | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1J | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1K | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1L | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1M | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1N | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1O | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 1P | 0 | 1830 | 4827 | 235 | -224 | 355 | -7367 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.90 | 0.13 | 1.13 | 3.64 | 0.24 | 16.8 |
| 2 | 0 | 3023 | 6602 | 309 | -327 | 445 | -9590 | 6.16 | 3.08 | 3.08 | 7.70 | 2 | 0.95 | 0.18 | 1.58 | 4.98 | 0.36 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 4.62 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1B | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1C | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1D | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1E | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1F | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1G | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1H | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1I | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1J | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1K | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1L | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1M | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1N | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1O | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 1P | 41 | 1830 | 4446 | 235 | -224 | 259 | -6197 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.76 | 0.12 | 1.07 | 3.35 | 0.24 | 16.8 |
| 2 | 41 | 3023 | 6016 | 309 | -327 | 318 | -8002 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 1.00 | 0.17 | 1.48 | 4.54 | 0.36 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1B | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1C | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1D | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1E | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1F | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1G | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1H | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1I | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1J | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1K | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1L | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1M | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1N | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1O | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 1P | 82 | 1830 | 4064 | 235 | -224 | 164 | -4458 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 1.01 | 3.06 | 0.24 | 16.8 |
| 2 | 82 | 3023 | 5430 | 309 | -327 | 192 | -5664 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.96 | 0.16 | 1.38 | 4.09 | 0.36 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1B | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1C | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1D | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1E | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1F | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1G | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1H | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1I | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1J | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1K | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1L | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1M | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1N | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1O | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 1P | 123 | 1830 | 3683 | 235 | -224 | 68 | -2875 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.74 | 0.11 | 0.94 | 0.00 | 0.00 | 16.8 |
| 2 | 123 | 3023 | 4844 | 309 | -327 | 66 | -3565 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.94 | 0.14 | 1.29 | 3.65 | 0.36 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | 1830 | 3301 | 235 | -224 | -28 | -1449 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.10 | 0.88 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | 3023 | 4258 | 309 | -327 | -60 | -1705 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.52 | 0.13 | 1.19 | 3.21 | 0.36 | 16.8 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1B | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1D | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1E | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1F | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1G | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1H | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1I | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1J | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1K | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1L | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1M | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1N | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1O | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 1P | 204 | 1830 | 2920 | 235 | -224 | -124 | -178 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |
| 2 | 204 | 3023 | 3672 | 309 | -327 | -187 | -85 | 3.08 | 6.16 | 3.08 | 6.16 | 1 | 0.17 | 0.12 | 1.09 | 2.77 | 0.36 | 16.8 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1B | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1C | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1D | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1E | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1F | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1G | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1H | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1I | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1J | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1K | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1L | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1M | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1N | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1O | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1P | 245 | 1830 | 2538 | 235 | -224 | -220 | 937 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 16.8 |
| 2 | 245 | 3023 | 3086 | 309 | -327 | -313 | 1296 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.42 | 0.11 | 0.99 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1B | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1C | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1D | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1E | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1F | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1G | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1H | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1I | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1J | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1K | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1L | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1M | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1N | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1O | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1P | 286 | 1830 | 2157 | 235 | -224 | -316 | 1896 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.51 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 2 | 286 | 3023 | 2500 | 309 | -327 | -439 | 2437 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.69 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1B | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1C | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1D | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1E | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1F | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1G | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1H | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1I | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1J | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1K | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1L | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1M | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1N | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1O | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1P | 327 | 1830 | 1775 | 235 | -224 | -412 | 2699 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.62 | 0.00 | 0.00 | 16.8 |
| 2 | 327 | 3023 | 1914 | 309 | -327 | -565 | 3339 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.89 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1B | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1C | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1D | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1E | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1F | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1G | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1H | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1I | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1J | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1K | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1L | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1M | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1N | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1O | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1P | 368 | 1830 | 1394 | 235 | -224 | -508 | 3347 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.85 | 0.06 | 0.56 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 368 | 3023 | 1328 | 309 | -327 | -692 | 4001 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.70 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1B | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1C | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1D | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1E | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1F | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1G | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1H | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1I | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1J | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1K | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1L | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1M | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1N | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1O | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1P | 409 | 1830 | 1012 | 235 | -224 | -604 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.96 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 2 | 409 | 3023 | 742 | 309 | -327 | -818 | 4424 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 71** NI 16162 NF 16166 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.8975 5.9670 16.8645 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -715 | 2812 | -12 | -29 | -1 | -1656 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.09 | 0.71 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -1178 | 4494 | -34 | -72 | -36 | -2643 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.57 | 0.14 | 1.22 | 3.39 | 0.11 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1B | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1C | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1D | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1E | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1F | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1G | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1H | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1I | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1J | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1K | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1L | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1M | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1N | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1O | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1P | 38 | -715 | 2260 | -12 | -29 | 3 | -690 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 2 | 38 | -1178 | 3613 | -34 | -72 | -23 | -1099 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.21 | 0.12 | 1.01 | 2.72 | 0.11 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 76 | -715 | 1709 | -12 | -29 | 8 | 66 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 76 | -1178 | 2733 | -34 | -72 | -10 | 110 | 3.08 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1B | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1C | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1D | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1E | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1F | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1G | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1H | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1I | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1J | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1K | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1L | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1M | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1N | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1O | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1P | 114 | -715 | 1157 | -12 | -29 | 13 | 612 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.32 | 0.00 | 0.00 | 22.3 |
| 2 | 114 | -1178 | 1852 | -34 | -72 | 3 | 984 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1B | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1C | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1D | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1E | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1F | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1G | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1H | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1I | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1J | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1K | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1L | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1M | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1N | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1O | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 1P | 152 | -715 | 606 | -12 | -29 | 18 | 948 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.02 | 0.20 | 0.00 | 0.00 | 22.3 |
| 2 | 152 | -1178 | 972 | -34 | -72 | 16 | 1522 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.31 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1B | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1C | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1D | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1E | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1F | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1G | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1H | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1I | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1J | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1K | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1L | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1M | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1N | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1O | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 1P | 190 | -715 | 55 | -12 | -29 | 22 | 1074 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.01 | 0.08 | 0.00 | 0.00 | 22.3 |
| 2 | 190 | -1178 | 91 | -34 | -72 | 29 | 1724 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.02 | 0.19 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1B | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1C | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1D | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1E | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1F | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1G | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1H | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1I | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1J | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1K | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1L | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1M | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1N | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1O | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 1P | 229 | -715 | -497 | -12 | -29 | 27 | 990 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |
| 2 | 229 | -1178 | -790 | -34 | -72 | 43 | 1591 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.04 | 0.34 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1B | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1C | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1D | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1E | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1F | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1G | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1H | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1I | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1J | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1K | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1M | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1N | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1O | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 1P | 267 | -715 | -1048 | -12 | -29 | 32 | 695 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.04 | 0.30 | 0.00 | 0.00 | 22.3 |
| 2 | 267 | -1178 | -1670 | -34 | -72 | 56 | 1123 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.06 | 0.53 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1B | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1C | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1D | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1E | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1F | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1G | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1H | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1I | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1J | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1K | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1L | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1M | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1N | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1O | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1P | 305 | -715 | -1600 | -12 | -29 | 37 | 191 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 2 | 305 | -1178 | -2551 | -34 | -72 | 69 | 319 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.09 | 0.72 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1B | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1C | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1D | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1E | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1F | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1G | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1H | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1I | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1J | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1K | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1L | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1M | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1N | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1O | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1P | 343 | -715 | -2152 | -12 | -29 | 41 | -523 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.09 | 0.07 | 0.56 | 0.00 | 0.00 | 22.3 |
| 2 | 343 | -1178 | -3431 | -34 | -72 | 82 | -820 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.14 | 0.11 | 0.97 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 381 | -715 | -2703 | -12 | -29 | 46 | -1448 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 381 | -1178 | -4312 | -34 | -72 | 95 | -2295 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.14 | 1.17 | 3.25 | 0.11 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 72** NI 16166 NF 16170 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.8250 5.9670 15.7920 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -722 | 2554 | 21 | 47 | 41 | -1459 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.31 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -1135 | 4130 | 54 | 63 | 107 | -2341 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.50 | 0.13 | 1.11 | 3.11 | 0.10 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1L | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1M | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 39 | -722 | 2027 | 21 | 47 | 33 | -559 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.10 | 0.07 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 39 | -1135 | 3276 | 54 | 63 | 85 | -886 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.16 | 0.11 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -722 | 1500 | 21 | 47 | 25 | 134 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.01 | 0.05 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -1135 | 2423 | 54 | 63 | 64 | 234 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.08 | 0.68 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1B | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1C | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1D | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1E | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1F | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1G | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1H | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1I | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1J | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1K | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1L | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1M | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1N | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1O | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 1P | 118 | -722 | 973 | 21 | 47 | 16 | 620 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.12 | 0.04 | 0.33 | 0.00 | 0.00 | 22.3 |
| 2 | 118 | -1135 | 1569 | 54 | 63 | 43 | 1018 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1B | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1C | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1D | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1E | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1F | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1G | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1H | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1I | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1J | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1K | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1L | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1M | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1N | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1O | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 1P | 157 | -722 | 446 | 21 | 47 | 8 | 899 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.18 | 0.02 | 0.21 | 0.00 | 0.00 | 22.3 |
| 2 | 157 | -1135 | 715 | 54 | 63 | 22 | 1467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1B | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1C | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1D | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1E | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1F | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1H | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1I | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1J | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1K | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1L | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1M | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1N | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1O | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 1P | 196 | -722 | -81 | 21 | 47 | 0 | 971 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.01 | 0.13 | 0.00 | 0.00 | 22.3 |
| 2 | 196 | -1135 | -139 | 54 | 63 | 0 | 1580 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.32 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 236 | -722 | -607 | 21 | 47 | -8 | 836 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 236 | -1135 | -992 | 54 | 63 | -21 | 1357 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.04 | 0.37 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1P | 275 | -722 | -1134 | 21 | 47 | -16 | 494 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 275 | -1135 | -1846 | 54 | 63 | -42 | 799 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.14 | 0.06 | 0.55 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1B | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1C | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1D | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1E | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1F | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1G | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1H | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1I | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1J | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1K | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1L | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1M | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1N | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1O | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 1P | 314 | -722 | -1661 | 21 | 47 | -25 | -56 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |
| 2 | 314 | -1135 | -2700 | 54 | 63 | -63 | -94 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1B | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1C | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1D | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1E | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1F | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1G | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1H | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1I | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1J | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1K | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1L | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1M | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1N | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1O | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 1P | 354 | -722 | -2188 | 21 | 47 | -33 | -812 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.61 | 0.00 | 0.00 | 22.3 |
| 2 | 354 | -1135 | -3553 | 54 | 63 | -84 | -1323 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1B | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1C | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1D | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1E | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1F | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1G | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1H | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1I | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1J | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1K | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1L | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1M | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1N | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1O | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 1P | 393 | -722 | -2715 | 21 | 47 | -41 | -1775 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.38 | 0.09 | 0.73 | 0.00 | 0.00 | 22.3 |
| 2 | 393 | -1135 | -4407 | 54 | 63 | -106 | -2887 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.62 | 0.14 | 1.17 | 3.32 | 0.10 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 73**  NI 16170  NF 16174  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.4050  5.5998  15.0048  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -874 | 2483 | -190 | 77 | -349 | -1679 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.35 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 0 | -1326 | 4032 | -296 | 125 | -544 | -2756 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.59 | 0.14 | 1.24 | 3.04 | 0.19 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1B | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1C | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1D | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1E | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1F | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1G | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1H | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1I | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1J | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1K | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1L | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1M | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1N | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1O | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1P | 37 | -874 | 2013 | -190 | 77 | -279 | -851 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.16 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 2 | 37 | -1326 | 3273 | -296 | 125 | -435 | -1411 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.27 | 0.12 | 1.06 | 2.47 | 0.19 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | -874 | 1543 | -190 | 77 | -209 | -196 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -1326 | 2513 | -296 | 125 | -326 | -346 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.05 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | -874 | 1073 | -190 | 77 | -139 | 285 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.03 | 0.05 | 0.42 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | -1326 | 1754 | -296 | 125 | -217 | 440 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.05 | 0.07 | 0.68 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1B | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1C | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1D | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1E | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1F | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1G | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1H | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1I | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1J | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1K | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1L | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1M | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1N | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1O | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 1P | 147 | -874 | 603 | -190 | 77 | -70 | 594 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.03 | 0.32 | 0.00 | 0.00 | 22.3 |
| 2 | 147 | -1326 | 994 | -296 | 125 | -108 | 946 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.17 | 0.05 | 0.51 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1B | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1C | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1D | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1E | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1F | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1G | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1H | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1I | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1J | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1K | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1L | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1M | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1N | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1O | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1P | 184 | -874 | 134 | -190 | 77 | 0 | 730 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.02 | 0.23 | 0.00 | 0.00 | 22.3 |
| 2 | 184 | -1326 | 235 | -296 | 125 | 0 | 1172 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.03 | 0.36 | 0.00 | 0.00 | 22.3 |

apost= --  aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1B | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1C | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1D | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1E | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1F | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1G | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1H | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1I | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1J | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1K | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1L | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1M | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1N | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1O | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 1P | 221 | -874 | -336 | -190 | 77 | 70 | 693 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.13 | 0.03 | 0.26 | 0.00 | 0.00 | 22.3 |
| 2 | 221 | -1326 | -524 | -296 | 125 | 109 | 1119 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.21 | 0.04 | 0.41 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1B | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1C | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1D | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1E | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1F | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1G | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1H | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1I | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1J | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1K | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1L | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1M | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1N | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 1O | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 258 | -874 | -806 | -190 | 77 | 140 | 482 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.08 | 0.04 | 0.36 | 0.00 | 0.00 | 22.3 |
| 2 | 258 | -1326 | -1284 | -296 | 125 | 218 | 786 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1B | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1C | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1D | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1E | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1F | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1G | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1H | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1I | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1J | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1K | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1L | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1M | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1N | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1O | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 1P | 295 | -874 | -1276 | -190 | 77 | 210 | 99 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.03 | 0.05 | 0.46 | 0.00 | 0.00 | 22.3 |
| 2 | 295 | -1326 | -2043 | -296 | 125 | 327 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.05 | 0.08 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1B | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1C | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1D | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1E | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1F | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1G | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1H | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1I | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1J | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1K | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1L | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1M | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1N | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1O | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1P | 331 | -874 | -1746 | -190 | 77 | 280 | -458 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.07 | 0.07 | 0.59 | 0.00 | 0.00 | 22.3 |
| 2 | 331 | -1326 | -2803 | -296 | 125 | 436 | -718 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 368 | -874 | -2216 | -190 | 77 | 350 | -1187 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.24 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 368 | -1326 | -3562 | -296 | 125 | 544 | -1890 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.39 | 0.13 | 1.13 | 2.69 | 0.19 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 74** NI 16174 NF 16178 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 6.4050 5.5998 15.0048 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1B | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1C | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1D | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1E | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1F | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1G | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1H | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1I | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1J | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1K | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1L | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1M | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1N | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1O | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |
| 1P | 0 | -1004 | 2145 | 81 | 168 | 165 | -1127 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.22 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0 | -1476 | 3493 | 158 | 262 | 317 | -1840 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.37 | 0.15 | 1.45 | 2.63 | 0.40 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1B | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1C | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1D | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1E | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1F | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1G | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1H | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1I | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1J | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1K | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1L | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1M | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1N | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1O | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 1P | 36 | -1004 | 1683 | 81 | 168 | 135 | -435 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.08 | 0.79 | 0.00 | 0.00 | 22.3 |
| 2 | 36 | -1476 | 2747 | 158 | 262 | 259 | -712 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.11 | 0.13 | 1.27 | 2.07 | 0.40 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1B | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1C | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1D | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1E | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1F | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1G | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1H | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1I | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1J | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1K | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1L | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1M | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1N | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1O | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1P | 72 | -1004 | 1222 | 81 | 168 | 106 | 90 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.01 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 2 | 72 | -1476 | 2001 | 158 | 262 | 202 | 147 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.02 | 0.11 | 1.06 | 1.51 | 0.40 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1B | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1C | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1D | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1E | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1F | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1G | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1H | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1I | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1J | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1K | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1L | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1M | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1N | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1O | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 1P | 108 | -1004 | 760 | 81 | 168 | 77 | 448 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 22.3 |
| 2 | 108 | -1476 | 1256 | 158 | 262 | 145 | 735 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.11 | 0.09 | 0.90 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1B | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1C | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1D | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1E | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1F | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1G | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1H | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1I | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1J | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1K | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1L | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1M | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1N | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1O | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1P | 145 | -1004 | 299 | 81 | 168 | 48 | 640 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.47 | 0.00 | 0.00 | 22.3 |
| 2 | 145 | -1476 | 510 | 158 | 262 | 87 | 1055 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.19 | 0.07 | 0.74 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 181 | -1004 | -163 | 81 | 168 | 18 | 664 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 181 | -1476 | -236 | 158 | 262 | 30 | 1104 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.20 | 0.06 | 0.68 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 217 | -1004 | -625 | 81 | 168 | -11 | 522 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 217 | -1476 | -982 | 158 | 262 | -27 | 884 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.15 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1B | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1C | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1D | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1E | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1F | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1G | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1H | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1I | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1J | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1K | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1L | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1M | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1N | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1O | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 1P | 253 | -1004 | -1086 | 81 | 168 | -40 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.02 | 0.06 | 0.64 | 0.00 | 0.00 | 22.3 |
| 2 | 253 | -1476 | -1728 | 158 | 262 | -85 | 394 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.04 | 0.10 | 1.00 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1B | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1C | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1D | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1E | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1F | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1G | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1H | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1I | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1J | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1K | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1L | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1M | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1N | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1O | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 1P | 289 | -1004 | -1548 | 81 | 168 | -69 | -264 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.03 | 0.08 | 0.76 | 0.00 | 0.00 | 22.3 |
| 2 | 289 | -1476 | -2473 | 158 | 262 | -142 | -366 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.04 | 0.12 | 1.21 | 1.87 | 0.40 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1B | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1C | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1D | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1E | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1F | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1G | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1H | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1I | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1J | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1K | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1L | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1M | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1N | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1O | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1P | 325 | -1004 | -2009 | 81 | 168 | -98 | -907 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.09 | 0.87 | 0.00 | 0.00 | 22.3 |
| 2 | 325 | -1476 | -3219 | 158 | 262 | -199 | -1395 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.27 | 0.14 | 1.38 | 2.43 | 0.40 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1B | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1C | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1D | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1F | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1G | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1H | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1I | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1J | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1K | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1L | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1M | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1N | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1O | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1P | 362 | -1004 | -2471 | 81 | 168 | -128 | -1717 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.36 | 0.10 | 0.97 | 0.00 | 0.00 | 22.3 |
| 2 | 362 | -1476 | -3965 | 158 | 262 | -256 | -2694 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.57 | 0.16 | 1.56 | 2.99 | 0.40 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 75**  NI 16178  NF 16182  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  6.8250  5.9670  15.7920  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1B | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1C | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1D | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1E | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1F | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1G | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1H | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1I | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1J | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1K | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1L | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1M | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1N | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1O | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 1P | 0 | -1130 | 2598 | 200 | 190 | 382 | -1965 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.41 | 0.11 | 1.06 | 1.96 | 0.29 | 22.3 |
| 2 | 0 | -1625 | 4276 | 331 | 303 | 635 | -3104 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.66 | 0.18 | 1.73 | 3.22 | 0.47 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1B | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1C | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1D | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1E | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1F | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1G | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1H | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1I | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1J | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1K | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1L | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1M | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1N | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1O | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 1P | 40 | -1130 | 2068 | 200 | 190 | 303 | -1042 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.20 | 0.10 | 0.93 | 0.00 | 0.00 | 22.3 |
| 2 | 40 | -1625 | 3417 | 331 | 303 | 504 | -1582 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.30 | 0.16 | 1.53 | 2.58 | 0.47 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1B | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1C | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1D | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1E | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1F | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1G | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1H | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1I | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1J | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1K | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1L | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1M | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1N | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1O | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1P | 79 | -1130 | 1537 | 200 | 190 | 224 | -329 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 2 | 79 | -1625 | 2557 | 331 | 303 | 374 | -401 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.06 | 0.13 | 1.33 | 1.93 | 0.47 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1B | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1C | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1D | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1E | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1G | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1H | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1I | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1J | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1K | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1L | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1M | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1N | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1O | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 1P | 119 | -1130 | 1007 | 200 | 190 | 145 | 174 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.02 | 0.07 | 0.67 | 0.00 | 0.00 | 22.3 |
| 2 | 119 | -1625 | 1698 | 331 | 303 | 243 | 441 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.04 | 0.11 | 1.09 | 1.28 | 0.47 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1B | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1C | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1D | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1E | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1F | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1G | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1H | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1I | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1J | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1K | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1L | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1M | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1N | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1O | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 1P | 158 | -1130 | 476 | 200 | 190 | 66 | 467 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.05 | 0.56 | 0.00 | 0.00 | 22.3 |
| 2 | 158 | -1625 | 838 | 331 | 303 | 112 | 942 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.15 | 0.08 | 0.90 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1B | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1C | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1D | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1E | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1F | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1G | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1H | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1I | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1J | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1K | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1L | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1M | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1N | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1O | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 1P | 198 | -1130 | -54 | 200 | 190 | -13 | 550 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.08 | 0.04 | 0.50 | 0.00 | 0.00 | 22.3 |
| 2 | 198 | -1625 | -22 | 331 | 303 | -19 | 1104 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.07 | 0.80 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1L | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1M | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 237 | -1130 | -584 | 200 | 190 | -91 | 424 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 237 | -1625 | -881 | 331 | 303 | -150 | 925 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.15 | 0.09 | 0.91 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 277 | -1130 | -1115 | 200 | 190 | -170 | 88 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.02 | 0.07 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 277 | -1625 | -1741 | 331 | 303 | -281 | 407 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.04 | 0.11 | 1.10 | 1.31 | 0.47 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1B | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1C | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1D | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1E | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1F | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1G | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1H | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1I | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1J | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1K | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1L | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1M | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1N | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1O | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 1P | 317 | -1130 | -1645 | 200 | 190 | -249 | -458 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.06 | 0.08 | 0.84 | 0.00 | 0.00 | 22.3 |
| 2 | 317 | -1625 | -2600 | 331 | 303 | -412 | -452 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.07 | 0.13 | 1.34 | 1.96 | 0.47 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1B | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1C | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1D | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1E | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1F | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1G | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1H | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1I | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1J | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1K | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1L | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1M | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1N | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1O | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 1P | 356 | -1130 | -2176 | 200 | 190 | -328 | -1214 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.24 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |
| 2 | 356 | -1625 | -3460 | 331 | 303 | -543 | -1650 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.16 | 1.54 | 2.61 | 0.47 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1B | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1C | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1D | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1E | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1F | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1G | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1H | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1I | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1J | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1K | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1L | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1M | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1N | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1O | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 1P | 396 | -1130 | -2706 | 200 | 190 | -407 | -2180 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.46 | 0.11 | 1.08 | 2.04 | 0.29 | 22.3 |
| 2 | 396 | -1625 | -4319 | 331 | 303 | -674 | -3189 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.68 | 0.18 | 1.74 | 3.26 | 0.47 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 76**  NI 16182  NF 16186  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  7.0000  6.1200  16.1200  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1B | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1C | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1D | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1E | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1F | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1G | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1H | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1I | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1J | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1K | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1L | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1M | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1N | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1O | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 1P | 0 | -1408 | 3106 | 122 | -334 | 284 | -2275 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.47 | 0.16 | 1.53 | 2.34 | 0.51 | 22.3 |
| 2 | 0 | -2022 | 4755 | 182 | -423 | 420 | -3152 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.65 | 0.22 | 2.15 | 3.59 | 0.65 | 20.6 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 20.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1B | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1C | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1D | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1E | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1F | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1G | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1H | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1I | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1J | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1K | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1L | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1M | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1N | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1O | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 1P | 41 | -1408 | 2547 | 122 | -334 | 235 | -1120 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.20 | 0.14 | 1.40 | 1.92 | 0.51 | 22.3 |
| 2 | 41 | -2022 | 3849 | 182 | -423 | 345 | -1394 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.24 | 0.19 | 1.93 | 2.90 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1B | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1C | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1D | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1E | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1F | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1G | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1H | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1I | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1J | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1K | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1L | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1M | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1N | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1O | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 1P | 82 | -1408 | 1989 | 122 | -334 | 185 | -193 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.26 | 1.50 | 0.51 | 22.3 |
| 2 | 82 | -2022 | 2942 | 182 | -423 | 271 | -7 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.03 | 0.17 | 1.72 | 2.22 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1B | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1C | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1D | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1E | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1F | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1G | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1H | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1I | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1J | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1K | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1L | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1M | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1N | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1O | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 1P | 123 | -1408 | 1430 | 122 | -334 | 135 | 505 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.06 | 0.11 | 1.11 | 1.08 | 0.51 | 22.3 |
| 2 | 123 | -2022 | 2036 | 182 | -423 | 197 | 1010 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.16 | 0.14 | 1.44 | 1.54 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1B | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1C | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1D | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1E | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1F | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1G | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1H | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1I | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1J | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1K | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1L | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1M | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1N | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1O | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 1P | 163 | -1408 | 871 | 122 | -334 | 85 | 975 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.99 | 0.00 | 0.00 | 22.3 |
| 2 | 163 | -2022 | 1129 | 182 | -423 | 123 | 1657 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.30 | 0.12 | 1.25 | 0.85 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1B | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1C | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1D | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1E | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1F | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1G | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1H | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1I | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1J | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1K | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1L | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1M | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1N | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 1P | 204 | -1408 | 313 | 122 | -334 | 35 | 1217 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.08 | 0.87 | 0.00 | 0.00 | 22.3 |
| 2 | 204 | -2022 | 223 | 182 | -423 | 48 | 1933 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.09 | 1.06 | 0.19 | 0.65 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1B | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1C | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1D | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1E | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1F | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1G | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1H | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1I | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1J | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1K | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1L | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1M | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1N | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1O | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 1P | 245 | -1408 | -246 | 122 | -334 | -15 | 1230 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.07 | 0.85 | 0.00 | 0.00 | 22.3 |
| 2 | 245 | -2022 | -683 | 182 | -423 | -26 | 1839 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.35 | 0.10 | 1.16 | 0.52 | 0.65 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1B | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1C | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1D | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1E | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1F | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1G | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1H | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1I | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1J | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1K | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1L | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1M | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1N | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1O | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 1P | 286 | -1408 | -805 | 122 | -334 | -64 | 1015 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.09 | 0.97 | 0.00 | 0.00 | 22.3 |
| 2 | 286 | -2022 | -1590 | 182 | -423 | -100 | 1374 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.24 | 0.13 | 1.35 | 1.20 | 0.65 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1B | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1C | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1D | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1E | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1F | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1G | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1H | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1I | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1J | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1K | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1L | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1M | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1N | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1O | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 1P | 327 | -1408 | -1364 | 122 | -334 | -114 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.08 | 0.11 | 1.09 | 1.03 | 0.51 | 22.3 |
| 2 | 327 | -2022 | -2496 | 182 | -423 | -175 | 540 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.16 | 1.54 | 1.88 | 0.65 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1B | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1C | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1D | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1E | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1F | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1G | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1H | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1I | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1J | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1K | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1L | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1M | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1N | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1O | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 1P | 368 | -1408 | -1922 | 122 | -334 | -164 | -99 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.12 | 1.25 | 1.45 | 0.51 | 22.3 |
| 2 | 368 | -2022 | -3403 | 182 | -423 | -249 | -665 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.08 | 0.18 | 1.83 | 2.57 | 0.65 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1B | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1C | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1D | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1E | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1F | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1G | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1H | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1J | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1K | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1L | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1M | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1N | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1O | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 1P | 409 | -1408 | -2481 | 122 | -334 | -214 | -999 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.18 | 0.14 | 1.38 | 1.87 | 0.51 | 22.3 |
| 2 | 409 | -2022 | -4309 | 182 | -423 | -323 | -2241 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.44 | 0.21 | 2.04 | 3.25 | 0.65 | 22.1 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.1  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **30** Tabella: **Tabella travi**
Descrizione: **Travi 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Verifica in ottemperanza alle NTC2008
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 15765 NF 15760 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1B | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1C | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1D | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1E | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1F | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1G | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1H | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1I | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1J | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1K | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1L | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1M | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1N | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1O | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 1P | 0 | -4206 | 10800 | -219 | 377 | -255 | -499 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.14 | 1.50 | 4.50 | 0.22 | 11.2 |
| 2 | 0 | -6210 | 16140 | -320 | 586 | -372 | -721 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.02 | 0.22 | 2.32 | 6.72 | 0.34 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1B | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1C | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1D | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1E | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1F | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1G | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1H | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1I | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1J | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1K | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1L | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1M | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1N | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1O | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 1P | 29 | -4206 | 10162 | -219 | 377 | -192 | 2495 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.15 | 0.14 | 1.43 | 4.23 | 0.22 | 11.2 |
| 2 | 29 | -6210 | 15194 | -320 | 586 | -281 | 3754 | 3.08 | 9.24 | 9.24 | 4.62 | 5 | 0.23 | 0.21 | 2.21 | 6.33 | 0.34 | 11.2 |

apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1B | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1C | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1D | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1E | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1F | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1G | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1H | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1I | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1J | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1K | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1L | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1M | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1N | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1O | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 1P | 57 | -4206 | 9523 | -219 | 377 | -130 | 5305 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.50 | 0.13 | 1.35 | 3.97 | 0.22 | 11.2 |
| 2 | 57 | -6210 | 14248 | -320 | 586 | -189 | 7958 | 3.08 | 9.24 | 9.24 | 4.62 | 6 | 0.75 | 0.19 | 2.09 | 5.93 | 0.34 | 11.2 |

apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1B | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1C | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1D | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1E | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1F | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1G | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1H | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1I | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1J | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1L | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1M | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1N | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1O | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 1P | 86 | -4206 | 8885 | -219 | 377 | -67 | 7934 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.83 | 0.12 | 1.28 | 3.70 | 0.22 | 16.8 |
| 2 | 86 | -6210 | 13303 | -320 | 586 | -98 | 11892 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.18 | 1.82 | 5.54 | 0.34 | 16.2 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1B | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1C | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1D | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1E | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1F | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1G | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1H | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1I | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1J | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1K | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1L | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1M | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1N | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1O | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 1P | 114 | -4206 | 8247 | -219 | 377 | -5 | 10380 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.12 | 1.17 | 3.43 | 0.22 | 16.8 |
| 2 | 114 | -6210 | 12357 | -320 | 586 | -6 | 15556 | 3.08 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.17 | 1.60 | 5.15 | 0.34 | 16.8 |

apost= -- aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1B | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1C | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1D | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1E | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1F | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1G | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1H | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1I | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1J | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1K | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1L | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1M | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1N | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1O | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 1P | 143 | -4206 | 7609 | -219 | 377 | 58 | 12644 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.11 | 1.09 | 3.17 | 0.22 | 16.8 |
| 2 | 143 | -6210 | 11411 | -320 | 586 | 85 | 18951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.87 | 0.16 | 1.43 | 4.75 | 0.34 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1B | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1C | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1D | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1E | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1F | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1G | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1H | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1I | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1J | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1K | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1L | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1M | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1N | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1O | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1P | 171 | -4206 | 6970 | -219 | 377 | 120 | 14726 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |
| 2 | 171 | -6210 | 10465 | -320 | 586 | 177 | 22075 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.86 | 0.15 | 1.29 | 4.36 | 0.34 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1B | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1C | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1D | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1E | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1F | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1G | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1H | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1I | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1J | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1K | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1L | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1M | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1N | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1O | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1P | 200 | -4206 | 6332 | -219 | 377 | 183 | 16626 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 2 | 200 | -6210 | 9519 | -320 | 586 | 268 | 24929 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.14 | 1.20 | 3.96 | 0.34 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1B | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1C | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1D | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1F | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1G | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1H | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1I | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1J | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1K | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1L | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1M | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1N | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1O | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1P | 229 | -4206 | 5694 | -219 | 377 | 245 | 18343 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.09 | 0.78 | 0.00 | 0.00 | 16.8 |
| 2 | 229 | -6210 | 8574 | -320 | 586 | 360 | 27512 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.94 | 0.13 | 1.08 | 3.57 | 0.34 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1B | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1C | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1D | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1E | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1F | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1G | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1H | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1I | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1J | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1K | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1L | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1M | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1N | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1O | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1P | 257 | -4206 | 5055 | -219 | 377 | 308 | 19877 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 2 | 257 | -6210 | 7628 | -320 | 586 | 451 | 29826 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.91 | 0.12 | 0.98 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1B | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1C | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1D | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1E | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1F | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1G | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1H | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1I | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1J | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1K | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1L | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1M | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1N | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1O | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 1P | 286 | -4206 | 4417 | -219 | 377 | 370 | 21230 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |
| 2 | 286 | -6210 | 6682 | -320 | 586 | 543 | 31870 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.97 | 0.11 | 0.90 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 2** NI 15760 NF 15767 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -5472 | -4308 | -298 | 548 | -295 | 20930 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -8101 | -6550 | -440 | 853 | -443 | 31440 | 4.62 | 9.24 | 12.32 | 3.08 | 4 | 0.94 | 0.12 | 1.04 | 2.73 | 0.49 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1B | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1C | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1D | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1E | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1G | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1H | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1I | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1J | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1K | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1L | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1M | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1N | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1O | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1P | 28 | -5472 | -4929 | -298 | 548 | -212 | 19646 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.92 | 0.09 | 0.80 | 0.00 | 0.00 | 16.8 |
| 2 | 28 | -8101 | -7470 | -440 | 853 | -321 | 29490 | 4.62 | 9.24 | 10.78 | 3.08 | 5 | 1.00 | 0.13 | 1.14 | 3.11 | 0.49 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1B | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1C | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1D | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1E | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1F | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1G | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1H | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1I | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1J | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1K | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1L | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1M | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1N | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1O | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1P | 56 | -5472 | -5550 | -298 | 548 | -129 | 18189 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.84 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |
| 2 | 56 | -8101 | -8390 | -440 | 853 | -199 | 27285 | 4.62 | 9.24 | 10.78 | 3.08 | 6 | 0.92 | 0.14 | 1.21 | 3.49 | 0.49 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1M | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1O | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 83 | -5472 | -6172 | -298 | 548 | -46 | 16559 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 83 | -8101 | -9310 | -440 | 853 | -76 | 24823 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.15 | 1.33 | 3.88 | 0.49 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1B | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1C | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1D | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1E | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1F | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1G | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1H | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1I | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1J | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1K | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1L | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1M | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1N | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1O | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 1P | 111 | -5472 | -6793 | -298 | 548 | 37 | 14757 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.83 | 0.11 | 1.03 | 2.83 | 0.32 | 16.8 |
| 2 | 111 | -8101 | -10230 | -440 | 853 | 46 | 22106 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.84 | 0.16 | 1.41 | 4.26 | 0.49 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1B | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1C | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1D | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1E | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1F | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1G | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1H | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1I | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1J | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1K | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1L | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1M | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1N | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1O | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 1P | 139 | -5472 | -7414 | -298 | 548 | 120 | 12782 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.93 | 0.11 | 1.16 | 3.09 | 0.32 | 16.8 |
| 2 | 139 | -8101 | -11150 | -440 | 853 | 168 | 19133 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.85 | 0.17 | 1.54 | 4.64 | 0.49 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1B | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1C | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1D | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1E | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1F | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1G | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1H | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1I | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1J | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1K | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1L | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1M | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1N | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1O | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 1P | 167 | -5472 | -8035 | -298 | 548 | 202 | 10634 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.23 | 3.35 | 0.32 | 16.8 |
| 2 | 167 | -8101 | -12070 | -440 | 853 | 291 | 15903 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.85 | 0.18 | 1.70 | 5.03 | 0.49 | 16.7 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1B | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1C | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1D | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1E | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1F | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1G | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1H | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1I | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1J | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1K | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1L | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1M | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1N | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1O | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 1P | 195 | -5472 | -8656 | -298 | 548 | 285 | 8313 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.82 | 0.13 | 1.37 | 3.60 | 0.32 | 11.2 |
| 2 | 195 | -8101 | -12990 | -440 | 853 | 413 | 12418 | 9.24 | 4.62 | 9.24 | 4.62 | 5 | 0.83 | 0.19 | 1.91 | 5.41 | 0.49 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1B | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1C | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1D | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1E | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1F | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1G | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1H | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1I | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1J | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1K | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1L | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1M | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1N | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1O | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 1P | 222 | -5472 | -9278 | -298 | 548 | 368 | 5820 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.51 | 0.14 | 1.45 | 3.86 | 0.32 | 11.2 |
| 2 | 222 | -8101 | -13910 | -440 | 853 | 536 | 8678 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.77 | 0.20 | 2.19 | 5.79 | 0.49 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1B | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1C | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1D | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1E | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1F | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1G | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1H | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1I | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1J | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1K | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1L | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1M | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1N | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1O | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 1P | 250 | -5472 | -9899 | -298 | 548 | 451 | 3154 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.18 | 0.14 | 1.52 | 4.12 | 0.32 | 11.2 |
| 2 | 250 | -8101 | -14830 | -440 | 853 | 658 | 4681 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.27 | 0.21 | 2.30 | 6.18 | 0.49 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1B | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1C | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1D | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1E | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1F | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1G | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1H | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1I | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1J | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1K | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1L | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1M | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1O | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 1P | 278 | -5472 | -10520 | -298 | 548 | 534 | 316 | 9.24 | 3.08 | 9.24 | 4.62 | 6 | 0.02 | 0.15 | 1.60 | 4.38 | 0.32 | 11.2 |
| 2 | 278 | -8101 | -15750 | -440 | 853 | 780 | 428 | 9.24 | 4.62 | 9.24 | 4.62 | 6 | 0.04 | 0.23 | 2.41 | 6.56 | 0.49 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 3** NI 15616 NF 16338 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.3750 5.3550 23.7300 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1B | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1C | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1D | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1E | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1F | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1G | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1H | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1I | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1J | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1K | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1L | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1M | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1N | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1O | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 1P | 0 | -3398 | 9896 | -703 | -479 | -1576 | -7374 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.79 | 0.14 | 1.44 | 4.12 | 0.28 | 11.2 |
| 2 | 0 | -5025 | 14740 | -1045 | -691 | -2348 | -10900 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.78 | 0.21 | 2.18 | 6.14 | 0.40 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1B | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1C | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1D | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1E | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1F | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1G | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1H | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1I | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1J | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1K | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1L | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1M | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1N | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1O | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 1P | 37 | -3398 | 9105 | -703 | -479 | -1318 | -3891 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.35 | 0.13 | 1.35 | 3.79 | 0.28 | 11.2 |
| 2 | 37 | -5025 | 13570 | -1045 | -691 | -1965 | -5713 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.52 | 0.19 | 2.04 | 5.65 | 0.40 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1B | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1C | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1D | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1E | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1F | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1G | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1H | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1I | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1J | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1K | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1L | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1M | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1N | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1O | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 1P | 73 | -3398 | 8314 | -703 | -479 | -1061 | -699 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.11 | 0.12 | 1.26 | 3.46 | 0.28 | 11.2 |
| 2 | 73 | -5025 | 12399 | -1045 | -691 | -1582 | -955 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.16 | 0.18 | 1.90 | 5.16 | 0.40 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1B | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1C | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1D | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1E | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1F | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1G | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1H | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1I | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1J | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1K | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1L | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1M | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1N | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 1P | 110 | -3398 | 7522 | -703 | -479 | -803 | 2203 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.14 | 0.11 | 1.16 | 3.13 | 0.28 | 16.8 |
| 2 | 110 | -5025 | 11229 | -1045 | -691 | -1199 | 3374 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.23 | 0.17 | 1.76 | 4.68 | 0.40 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1B | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1C | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1D | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1E | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1F | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1G | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1H | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1I | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1J | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1K | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1L | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1M | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1N | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1O | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 1P | 147 | -3398 | 6731 | -703 | -479 | -546 | 4816 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.10 | 1.07 | 2.80 | 0.28 | 16.8 |
| 2 | 147 | -5025 | 10058 | -1045 | -691 | -816 | 7274 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.71 | 0.15 | 1.62 | 4.19 | 0.40 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1B | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1C | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1D | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1E | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1F | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1G | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1H | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1I | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1J | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1K | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1L | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1M | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1N | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1O | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 1P | 183 | -3398 | 5940 | -703 | -479 | -288 | 7138 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.76 | 0.09 | 0.98 | 0.00 | 0.00 | 16.8 |
| 2 | 183 | -5025 | 8888 | -1045 | -691 | -434 | 10745 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.77 | 0.14 | 1.42 | 3.70 | 0.40 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1B | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1C | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1D | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1E | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1F | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1G | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1H | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1I | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1J | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1K | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1L | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1M | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1N | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1O | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1P | 220 | -3398 | 5149 | -703 | -479 | -31 | 9171 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.68 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 2 | 220 | -5025 | 7718 | -1045 | -691 | -51 | 13788 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.12 | 1.21 | 3.21 | 0.40 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1B | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1C | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1D | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1E | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1F | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1G | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1H | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1I | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1J | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1K | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1L | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1M | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1N | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1O | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1P | 257 | -3398 | 4358 | -703 | -479 | 227 | 10913 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.08 | 0.79 | 0.00 | 0.00 | 16.8 |
| 2 | 257 | -5025 | 6547 | -1045 | -691 | 332 | 16402 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.11 | 1.09 | 2.73 | 0.40 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | -3398 | 3566 | -703 | -479 | 484 | 12365 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.95 | 0.07 | 0.70 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | -5025 | 5377 | -1045 | -691 | 715 | 18587 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.87 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1B | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1C | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1D | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1E | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1F | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1G | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1H | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1I | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1J | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1K | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1L | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1M | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1N | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1O | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 1P | 330 | -3398 | 2775 | -703 | -479 | 742 | 13528 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.06 | 0.58 | 0.00 | 0.00 | 16.8 |
| 2 | 330 | -5025 | 4206 | -1045 | -691 | 1098 | 20343 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1B | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1C | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1D | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1E | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1F | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1G | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1H | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1I | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1J | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1K | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1L | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1M | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1N | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1O | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 1P | 367 | -3398 | 1984 | -703 | -479 | 999 | 14400 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.50 | 0.00 | 0.00 | 16.8 |
| 2 | 367 | -5025 | 3036 | -1045 | -691 | 1481 | 21670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 8** NI 16338 NF 16339 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.3750 5.3550 23.7300 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -3101 | -762 | -1439 | 895 | -1462 | 14260 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.84 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -4582 | -1259 | -2151 | 1376 | -2189 | 21450 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.10 | 1.05 | 1.62 | 0.79 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -3101 | -1485 | -1439 | 895 | -980 | 13883 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.82 | 0.06 | 0.70 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -4582 | -2328 | -2151 | 1376 | -1469 | 20850 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.99 | 0.10 | 1.06 | 1.62 | 0.79 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1B | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1C | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1D | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1E | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1F | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1G | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1H | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1I | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1J | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1K | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1L | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1M | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1N | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1O | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 1P | 67 | -3101 | -2208 | -1439 | 895 | -498 | 13265 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.78 | 0.07 | 0.78 | 0.00 | 0.00 | 16.8 |
| 2 | 67 | -4582 | -3397 | -2151 | 1376 | -748 | 19892 | 4.62 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.11 | 1.16 | 1.62 | 0.79 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1B | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1C | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1D | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1E | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1F | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1G | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1H | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1I | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1J | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1K | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1L | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1M | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1N | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1O | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 1P | 100 | -3101 | -2931 | -1439 | 895 | -17 | 12404 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.96 | 0.08 | 0.88 | 0.00 | 0.00 | 16.8 |
| 2 | 100 | -4582 | -4466 | -2151 | 1376 | -28 | 18576 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.12 | 1.26 | 1.86 | 0.79 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1M | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1O | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 134 | -3101 | -3654 | -1439 | 895 | 465 | 11301 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.87 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 134 | -4582 | -5535 | -2151 | 1376 | 692 | 16902 | 9.24 | 4.62 | 9.24 | 3.08 | 3 | 0.98 | 0.13 | 1.41 | 2.30 | 0.79 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1B | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1C | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1D | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1E | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1F | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1G | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1H | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1I | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1J | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1K | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1L | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1M | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1N | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1O | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 1P | 167 | -3101 | -4377 | -1439 | 895 | 947 | 9956 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.76 | 0.10 | 1.05 | 1.82 | 0.52 | 16.8 |
| 2 | 167 | -4582 | -6605 | -2151 | 1376 | 1412 | 14869 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.85 | 0.15 | 1.52 | 2.75 | 0.79 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1B | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1C | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1E | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1F | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1G | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1H | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1I | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1J | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1K | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1L | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1M | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1N | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1O | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 1P | 201 | -3101 | -5100 | -1439 | 895 | 1429 | 8368 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.92 | 0.11 | 1.13 | 2.12 | 0.52 | 16.8 |
| 2 | 201 | -4582 | -7674 | -2151 | 1376 | 2133 | 12479 | 9.24 | 4.62 | 9.24 | 3.08 | 2 | 0.93 | 0.16 | 1.70 | 3.20 | 0.79 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1B | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1C | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1D | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1E | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1F | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1G | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1H | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1I | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1J | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1K | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1L | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1M | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1N | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1O | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 1P | 234 | -3101 | -5823 | -1439 | 895 | 1911 | 6539 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.11 | 1.22 | 2.42 | 0.52 | 11.2 |
| 2 | 234 | -4582 | -8743 | -2151 | 1376 | 2853 | 9731 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.70 | 0.17 | 1.82 | 3.64 | 0.79 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1B | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1C | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1D | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1E | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1F | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1G | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1H | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1I | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1J | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1K | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1L | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1M | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1N | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1O | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 1P | 268 | -3101 | -6546 | -1439 | 895 | 2392 | 4467 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.44 | 0.12 | 1.30 | 2.73 | 0.52 | 11.2 |
| 2 | 268 | -4582 | -9812 | -2151 | 1376 | 3573 | 6625 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.65 | 0.18 | 2.00 | 4.09 | 0.79 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1B | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1C | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1D | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1E | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1F | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1G | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1H | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1I | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1J | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1K | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1L | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1M | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1N | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1O | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 1P | 301 | -3101 | -7269 | -1439 | 895 | 2874 | 2154 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.53 | 0.13 | 1.38 | 3.03 | 0.52 | 11.2 |
| 2 | 301 | -4582 | -10881 | -2151 | 1376 | 4294 | 3160 | 9.24 | 4.62 | 9.24 | 4.62 | 2 | 0.79 | 0.20 | 2.12 | 4.53 | 0.79 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1B | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1C | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1D | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1E | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1F | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1G | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1H | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1I | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1J | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1K | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1L | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1M | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1N | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1O | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 1P | 335 | -3101 | -7992 | -1439 | 895 | 3356 | -402 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.64 | 0.14 | 1.47 | 3.33 | 0.52 | 11.2 |
| 2 | 335 | -4582 | -11950 | -2151 | 1376 | 5014 | -662 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.95 | 0.21 | 2.25 | 4.98 | 0.79 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4**  NI 15704  NF 16338  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.7000  5.5080  20.2080  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1B | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1C | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1D | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1E | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1F | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1G | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1H | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1I | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1J | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1K | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1L | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1M | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1N | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1O | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 1P | 0 | -2209 | 5433 | 519 | 196 | 801 | -5136 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.75 | 0.19 | 1.77 | 4.10 | 0.30 | 9.3 |
| 2 | 0 | -3302 | 8171 | 774 | 281 | 1193 | -7637 | 4.62 | 3.08 | 3.08 | 6.16 | 2 | 0.84 | 0.28 | 2.71 | 6.16 | 0.43 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1B | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1C | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1D | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1E | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1F | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1G | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1H | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1I | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1J | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1K | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1L | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1M | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1N | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1O | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 1P | 35 | -2209 | 4806 | 519 | 196 | 620 | -3354 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.17 | 1.62 | 3.62 | 0.30 | 9.3 |
| 2 | 35 | -3302 | 7218 | 774 | 281 | 923 | -4959 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.69 | 0.26 | 2.47 | 5.44 | 0.43 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1B | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1C | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1D | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1E | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1F | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1G | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1H | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1I | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1J | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1K | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1L | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1M | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1N | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1O | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 1P | 70 | -2209 | 4180 | 519 | 196 | 439 | -1790 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.33 | 0.16 | 1.47 | 3.15 | 0.30 | 22.3 |
| 2 | 70 | -3302 | 6265 | 774 | 281 | 654 | -2612 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.48 | 0.23 | 2.23 | 4.72 | 0.43 | 18.0 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 18.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1B | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1C | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1D | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1E | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1F | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1G | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1H | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1I | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1J | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1K | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1L | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1M | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1N | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1O | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 1P | 104 | -2209 | 3553 | 519 | 196 | 258 | -444 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.04 | 0.14 | 1.32 | 2.68 | 0.30 | 22.3 |
| 2 | 104 | -3302 | 5313 | 774 | 281 | 384 | -597 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.05 | 0.20 | 2.00 | 4.01 | 0.43 | 20.6 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 20.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1B | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1C | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1D | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1E | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1F | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1G | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1H | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1I | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1J | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1K | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1L | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1M | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1N | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1O | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 1P | 139 | -2209 | 2926 | 519 | 196 | 78 | 683 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.08 | 0.12 | 1.08 | 2.21 | 0.30 | 22.3 |
| 2 | 139 | -3302 | 4360 | 774 | 281 | 115 | 1086 | 4.62 | 3.08 | 4.62 | 3.08 | 5 | 0.13 | 0.18 | 1.56 | 3.29 | 0.43 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1B | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1C | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1D | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1E | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1F | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1G | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1H | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1I | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1J | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1K | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1L | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1M | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1N | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1O | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1P | 174 | -2209 | 2299 | 519 | 196 | -103 | 1593 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.28 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 2 | 174 | -3302 | 3407 | 774 | 281 | -155 | 2438 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.44 | 0.15 | 1.37 | 2.57 | 0.43 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1B | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1C | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1D | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1E | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1F | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1G | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1H | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1I | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1J | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1K | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1L | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1M | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1N | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1O | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 1P | 209 | -2209 | 1673 | 519 | 196 | -284 | 2284 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.44 | 0.09 | 0.82 | 0.00 | 0.00 | 22.3 |
| 2 | 209 | -3302 | 2454 | 774 | 281 | -424 | 3458 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.67 | 0.13 | 1.17 | 1.85 | 0.43 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 244 | -2209 | 1046 | 519 | 196 | -465 | 2757 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.55 | 0.07 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 244 | -3302 | 1501 | 774 | 281 | -694 | 4146 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.83 | 0.10 | 0.98 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1B | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1C | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1D | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1E | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1F | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1G | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1H | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1I | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1J | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1K | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1L | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1N | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1O | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 1P | 278 | -2209 | 419 | 519 | 196 | -645 | 3012 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.61 | 0.05 | 0.58 | 0.00 | 0.00 | 22.3 |
| 2 | 278 | -3302 | 549 | 774 | 281 | -963 | 4503 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.91 | 0.08 | 0.85 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1B | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1C | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1D | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1E | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1F | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1G | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1H | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1I | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1J | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1K | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1L | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1M | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1N | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1O | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1P | 313 | -2209 | -207 | 519 | 196 | -826 | 3049 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.05 | 0.58 | 0.00 | 0.00 | 9.3 |
| 2 | 313 | -3302 | -404 | 774 | 281 | -1233 | 4528 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1B | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1C | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1D | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1E | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1F | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1G | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1H | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1I | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1J | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1K | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1L | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1M | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1N | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1O | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 1P | 348 | -2209 | -834 | 519 | 196 | -1007 | 2868 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.58 | 0.06 | 0.65 | 0.00 | 0.00 | 9.3 |
| 2 | 348 | -3302 | -1357 | 774 | 281 | -1502 | 4222 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.85 | 0.09 | 0.95 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 5**  NI 16338  NF 15760  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.7000  5.5080  20.2080  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -1473 | 1912 | 817 | 55 | 1454 | 1494 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -2196 | 2938 | 1218 | 69 | 2169 | 2155 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.60 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | -1473 | 1270 | 817 | 55 | 1163 | 2061 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -2196 | 1962 | 1218 | 69 | 1735 | 3028 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.62 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | -1473 | 628 | 817 | 55 | 872 | 2400 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | -2196 | 986 | 1218 | 69 | 1301 | 3554 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.74 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | -1473 | -14 | 817 | 55 | 580 | 2509 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.52 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | -2196 | 11 | 1218 | 69 | 867 | 3732 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.78 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 143 | -1473 | -656 | 817 | 55 | 289 | 2390 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.50 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 143 | -2196 | -965 | 1218 | 69 | 433 | 3561 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.74 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | -1473 | -1298 | 817 | 55 | -2 | 2041 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | -2196 | -1941 | 1218 | 69 | -2 | 3043 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.62 | 0.07 | 0.57 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 214 | -1473 | -1939 | 817 | 55 | -293 | 1464 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.28 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 214 | -2196 | -2917 | 1218 | 69 | -436 | 2177 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.42 | 0.10 | 0.78 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1B | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1C | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1D | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1E | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1F | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1G | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1H | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1I | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1J | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1K | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1L | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1M | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1N | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1O | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 1P | 250 | -1473 | -2581 | 817 | 55 | -584 | 659 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.13 | 0.08 | 0.69 | 0.00 | 0.00 | 22.3 |
| 2 | 250 | -2196 | -3893 | 1218 | 69 | -870 | 963 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.12 | 0.98 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1B | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1C | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1D | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1E | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1F | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1G | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1H | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1I | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1J | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1K | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1L | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1M | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1N | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1O | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 1P | 285 | -1473 | -3223 | 817 | 55 | -876 | -376 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.22 | 0.10 | 0.89 | 0.00 | 0.00 | 22.3 |
| 2 | 285 | -2196 | -4868 | 1218 | 69 | -1304 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.33 | 0.15 | 1.33 | 3.67 | 0.11 | 22.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1B | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1C | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1D | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1E | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1F | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1G | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1H | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1I | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1J | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1K | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1L | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1M | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1N | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1O | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 1P | 321 | -1473 | -3865 | 817 | 55 | -1167 | -1640 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.32 | 0.12 | 1.04 | 2.91 | 0.08 | 9.3 |
| 2 | 321 | -2196 | -5844 | 1218 | 69 | -1738 | -2508 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.49 | 0.18 | 1.57 | 4.41 | 0.11 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1B | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1C | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1D | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1E | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1F | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1G | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1H | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1I | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1J | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1K | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1L | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1M | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1N | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1O | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 1P | 357 | -1473 | -4507 | 817 | 55 | -1458 | -3132 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.67 | 0.14 | 1.19 | 3.40 | 0.08 | 9.3 |
| 2 | 357 | -2196 | -6820 | 1218 | 69 | -2172 | -4766 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.69 | 0.20 | 1.80 | 5.14 | 0.11 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 13**  NI 15760  NF 16340  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.9600 5.6304 20.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1B | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1C | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1D | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1E | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1F | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1G | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1H | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1I | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1J | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1K | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1L | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1M | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1N | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1O | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 1P | 0 | -1394 | 4218 | -450 | -250 | -793 | -3303 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.71 | 0.17 | 1.58 | 3.18 | 0.38 | 9.3 |
| 2 | 0 | -2077 | 6412 | -673 | -366 | -1186 | -5032 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.73 | 0.25 | 2.41 | 4.83 | 0.56 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1B | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1C | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1D | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1E | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1F | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1G | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1H | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1I | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1J | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1K | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1L | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1M | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1N | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1O | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 1P | 35 | -1394 | 3568 | -450 | -250 | -633 | -1922 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.39 | 0.15 | 1.43 | 2.69 | 0.38 | 9.3 |
| 2 | 35 | -2077 | 5423 | -673 | -366 | -947 | -2933 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.60 | 0.23 | 2.17 | 4.09 | 0.56 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1B | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1C | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1D | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1E | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1F | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1G | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1H | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1I | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1J | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1K | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1L | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1M | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1N | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1O | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 1P | 71 | -1394 | 2917 | -450 | -250 | -474 | -772 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.13 | 1.28 | 2.20 | 0.38 | 22.3 |
| 2 | 71 | -2077 | 4433 | -673 | -366 | -708 | -1185 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.19 | 0.20 | 1.94 | 3.34 | 0.56 | 22.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1B | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1C | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1D | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1E | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1F | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1G | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1H | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1I | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1J | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1K | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1L | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1M | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1N | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1O | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 1P | 106 | -1394 | 2267 | -450 | -250 | -314 | 147 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.05 | 0.11 | 1.09 | 1.71 | 0.38 | 22.3 |
| 2 | 106 | -2077 | 3443 | -673 | -366 | -470 | 212 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.07 | 0.17 | 1.60 | 2.60 | 0.56 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | -1394 | 1616 | -450 | -250 | -155 | 836 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.14 | 0.10 | 0.95 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | -2077 | 2454 | -673 | -366 | -231 | 1258 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.21 | 0.14 | 1.39 | 1.85 | 0.56 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1B | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1C | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1D | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1E | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1F | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1G | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1H | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1I | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1J | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1K | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1L | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1M | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1N | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1O | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1P | 177 | -1394 | 966 | -450 | -250 | 5 | 1294 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 2 | 177 | -2077 | 1464 | -673 | -366 | 8 | 1953 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.10 | 0.56 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | -1394 | 315 | -450 | -250 | 164 | 1521 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | -2077 | 475 | -673 | -366 | 247 | 2296 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.45 | 0.09 | 1.03 | 0.70 | 0.56 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 248 | -1394 | -335 | -450 | -250 | 324 | 1517 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.30 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 248 | -2077 | -515 | -673 | -366 | 486 | 2289 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.45 | 0.09 | 1.03 | 0.70 | 0.56 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | -1394 | -986 | -450 | -250 | 484 | 1282 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.24 | 0.08 | 0.81 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 284 | -2077 | -1504 | -673 | -366 | 724 | 1931 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.37 | 0.12 | 1.19 | 1.13 | 0.56 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1B | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1C | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1D | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1E | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1F | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1G | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1H | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1I | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1J | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1K | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1L | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1M | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1N | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1O | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 1P | 319 | -1394 | -1636 | -450 | -250 | 643 | 817 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.10 | 0.95 | 0.00 | 0.00 | 9.3 |
| 2 | 319 | -2077 | -2494 | -673 | -366 | 963 | 1222 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.23 | 0.14 | 1.40 | 1.88 | 0.56 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1B | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1C | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1D | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1E | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1F | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1G | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1H | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1I | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1J | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1K | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1L | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1M | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1N | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1O | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 1P | 355 | -1394 | -2287 | -450 | -250 | 803 | 121 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.20 | 0.12 | 1.09 | 1.72 | 0.38 | 9.3 |
| 2 | 355 | -2077 | -3483 | -673 | -366 | 1202 | 162 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.30 | 0.17 | 1.61 | 2.63 | 0.56 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 14** NI 16340 NF 15929 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.9600 5.6304 20.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -1713 | 2317 | -304 | -19 | -681 | 389 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.54 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -2563 | 3531 | -451 | -20 | -1013 | 572 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.22 | 0.10 | 0.78 | 0.00 | 0.00 | 9.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | -1713 | 1646 | -304 | -19 | -570 | 1113 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.19 | 0.05 | 0.40 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | -2563 | 2511 | -451 | -20 | -848 | 1677 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.29 | 0.07 | 0.57 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1B | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1C | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1D | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1E | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1F | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1G | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1H | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1I | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1J | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1K | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1L | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1M | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1N | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1O | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 1P | 73 | -1713 | 975 | -304 | -19 | -459 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.30 | 0.03 | 0.25 | 0.00 | 0.00 | 22.3 |
| 2 | 73 | -2563 | 1490 | -451 | -20 | -683 | 2409 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.46 | 0.05 | 0.36 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1B | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1C | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1D | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1E | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1F | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1G | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1H | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1I | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1J | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1K | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1L | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1M | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1N | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1O | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 1P | 110 | -1713 | 304 | -304 | -19 | -348 | 1826 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.36 | 0.01 | 0.11 | 0.00 | 0.00 | 22.3 |
| 2 | 110 | -2563 | 470 | -451 | -20 | -518 | 2767 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.54 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1B | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1C | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1D | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1E | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1F | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1G | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1H | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1I | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1J | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1K | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1L | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1M | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1N | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1O | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 1P | 146 | -1713 | -367 | -304 | -19 | -237 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.35 | 0.01 | 0.12 | 0.00 | 0.00 | 22.3 |
| 2 | 146 | -2563 | -550 | -451 | -20 | -353 | 2753 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.54 | 0.02 | 0.16 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1B | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1C | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1D | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1E | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1F | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1G | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1H | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1I | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1J | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1K | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1L | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1M | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1N | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1O | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1P | 183 | -1713 | -1038 | -304 | -19 | -126 | 1558 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.29 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 2 | 183 | -2563 | -1571 | -451 | -20 | -188 | 2365 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.05 | 0.37 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1B | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1C | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1D | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1E | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1F | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1G | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1H | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1I | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1J | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1K | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1M | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1N | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1O | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 1P | 219 | -1713 | -1708 | -304 | -19 | -15 | 1056 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.18 | 0.05 | 0.41 | 0.00 | 0.00 | 22.3 |
| 2 | 219 | -2563 | -2591 | -451 | -20 | -22 | 1604 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.27 | 0.08 | 0.59 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1B | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1C | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1D | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1E | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1F | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1G | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1H | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1I | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1J | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1K | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1L | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1M | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1N | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1O | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 1P | 256 | -1713 | -2379 | -304 | -19 | 96 | 308 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.03 | 0.07 | 0.55 | 0.00 | 0.00 | 22.3 |
| 2 | 256 | -2563 | -3611 | -451 | -20 | 143 | 469 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.04 | 0.10 | 0.80 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1B | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1C | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1D | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1E | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1F | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1G | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1H | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1I | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1J | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1K | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1L | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1M | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1N | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1O | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 1P | 293 | -1713 | -3050 | -304 | -19 | 208 | -685 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.09 | 0.09 | 0.77 | 0.00 | 0.00 | 22.3 |
| 2 | 293 | -2563 | -4631 | -451 | -20 | 308 | -1038 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.14 | 0.13 | 1.17 | 3.49 | 0.03 | 22.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1B | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1C | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1D | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1E | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1F | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1G | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1H | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1I | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1J | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1K | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1L | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1M | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1N | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1O | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1P | 329 | -1713 | -3721 | -304 | -19 | 319 | -1923 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.38 | 0.11 | 0.93 | 0.00 | 0.00 | 9.3 |
| 2 | 329 | -2563 | -5652 | -451 | -20 | 473 | -2919 | 4.62 | 3.08 | 3.08 | 4.62 | 3 | 0.58 | 0.16 | 1.42 | 4.26 | 0.03 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1B | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1C | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1D | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1E | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1F | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1G | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1H | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1I | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1J | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1K | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1L | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1M | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1N | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1O | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 1P | 366 | -1713 | -4392 | -304 | -19 | 430 | -3407 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.13 | 1.08 | 3.31 | 0.03 | 9.3 |
| 2 | 366 | -2563 | -6672 | -451 | -20 | 638 | -5173 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.74 | 0.19 | 1.67 | 5.03 | 0.03 | 9.3 |

apost= 1.54 aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 6**  NI 15759  NF 16339  SEZ.  Rp  B= 70.0  H= 80.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 14.0000  22.1000  10.4040  46.5040  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1B | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1C | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1D | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1E | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1F | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1G | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1H | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1I | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1J | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1K | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1L | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1M | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1N | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1O | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 1P | 0 | -7663 | 18050 | 2493 | -383 | 4234 | -3798 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.22 | 0.11 | 1.17 | 6.54 | 0.10 | 9.6 |
| 2 | 0 | -11210 | 26840 | 3700 | -542 | 6274 | -6070 | 18.47 | 3.08 | 9.24 | 18.47 | 2 | 0.34 | 0.16 | 1.78 | 9.72 | 0.14 | 9.6 |
| apost= 15.39 aant= -- ainf= 6.16 asup= 15.39 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1B | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1C | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1D | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1E | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1F | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1G | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1H | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1I | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1J | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1K | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1L | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1M | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1N | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1O | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 1P | 36 | -7663 | 16540 | 2493 | -383 | 3345 | 2368 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.12 | 0.10 | 1.07 | 5.99 | 0.10 | 9.6 |
| 2 | 36 | -11210 | 24611 | 3700 | -542 | 4955 | 3101 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.18 | 0.15 | 1.64 | 8.92 | 0.14 | 9.6 |
| apost= 15.39 aant= -- ainf= 15.39 asup= 6.16 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1B | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1C | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1D | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1E | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1F | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1G | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1H | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1I | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1J | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1K | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1L | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1M | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1N | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1O | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1P | 71 | -7663 | 15031 | 2493 | -383 | 2457 | 7995 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.56 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 2 | 71 | -11210 | 22381 | 3700 | -542 | 3636 | 11477 | 18.47 | 3.08 | 18.47 | 9.24 | 3 | 0.79 | 0.14 | 1.50 | 8.11 | 0.14 | 9.6 |
| apost= 15.39 aant= -- ainf= 15.39 asup= 6.16 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1B | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1C | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1D | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1E | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1F | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1G | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1H | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1I | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1J | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1K | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1L | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1M | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1N | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1O | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1P | 107 | -7663 | 13521 | 2493 | -383 | 1568 | 13084 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.74 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 2 | 107 | -11210 | 20151 | 3700 | -542 | 2317 | 19058 | 18.47 | 3.08 | 18.47 | 3.08 | 3 | 0.82 | 0.12 | 1.36 | 7.30 | 0.14 | 9.6 |
| apost= 15.39 aant= -- ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1B | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1C | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1D | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1E | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1F | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1H | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1I | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1J | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1K | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1L | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1M | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1N | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1O | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1P | 143 | -7663 | 12011 | 2493 | -383 | 679 | 17635 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.81 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 2 | 143 | -11210 | 17922 | 3700 | -542 | 998 | 25844 | 18.47 | 3.08 | 18.47 | 3.08 | 4 | 0.95 | 0.11 | 1.18 | 6.49 | 0.14 | 9.6 |

apost= 15.39 aant= -- ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1B | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1C | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1D | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1E | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1F | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1G | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1H | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1I | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1J | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1K | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1L | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1M | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1N | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1O | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1P | 178 | -7663 | 10502 | 2493 | -383 | -209 | 21648 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 2 | 178 | -11210 | 15693 | 3700 | -542 | -321 | 31835 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.88 | 0.10 | 0.95 | 0.00 | 0.00 | 9.6 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1B | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1C | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1D | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1E | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1F | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1G | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1H | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1I | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1J | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1K | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1L | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1M | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1N | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1O | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1P | 214 | -7663 | 8992 | 2493 | -383 | -1098 | 25123 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.98 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 2 | 214 | -11210 | 13463 | 3700 | -542 | -1640 | 37032 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.91 | 0.09 | 0.80 | 0.00 | 0.00 | 9.6 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1B | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1C | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1D | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1E | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1F | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1G | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1H | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1I | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1J | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1K | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1L | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1M | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1N | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1O | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 1P | 250 | -7663 | 7482 | 2493 | -383 | -1987 | 28059 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.93 | 0.05 | 0.51 | 0.00 | 0.00 | 9.6 |
| 2 | 250 | -11210 | 11234 | 3700 | -542 | -2959 | 41434 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.92 | 0.07 | 0.66 | 0.00 | 0.00 | 9.6 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1B | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1C | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1D | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1E | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1F | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1G | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1H | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1I | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1J | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1K | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1L | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1M | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1N | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1O | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 1P | 285 | -7663 | 5972 | 2493 | -383 | -2876 | 30458 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 9.6 |
| 2 | 285 | -11210 | 9004 | 3700 | -542 | -4278 | 45041 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.92 | 0.06 | 0.54 | 0.00 | 0.00 | 9.6 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1B | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1C | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1D | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1E | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1F | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1G | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1H | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1I | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1J | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1K | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1L | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1M | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1N | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1O | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 1P | 321 | -7663 | 4463 | 2493 | -383 | -3764 | 32318 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.32 | 0.00 | 0.00 | 9.6 |
| 2 | 321 | -11210 | 6775 | 3700 | -542 | -5597 | 47853 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.98 | 0.05 | 0.43 | 0.00 | 0.00 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1B | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1C | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1D | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1E | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1F | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1G | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1H | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1I | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1J | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1K | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1L | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1M | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1N | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1O | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 1P | 357 | -7663 | 2953 | 2493 | -383 | -4653 | 33640 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.97 | 0.02 | 0.24 | 0.00 | 0.00 | 9.6 |
| 2 | 357 | -11210 | 4545 | 3700 | -542 | -6916 | 49870 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.93 | 0.03 | 0.33 | 0.00 | 0.00 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 7**  NI 16339  NF 15705  SEZ.  Rp  B= 70.0  H= 80.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 14.0000  22.1000  10.4040  46.5040  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1B | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1C | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1D | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1E | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1F | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1G | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1H | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1I | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1J | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1K | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1L | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1M | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1N | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1O | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 1P | 0 | -6225 | -5039 | -608 | -786 | -1297 | 32740 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.96 | 0.04 | 0.43 | 0.00 | 0.00 | 9.6 |
| 2 | 0 | -9061 | -7404 | -882 | -1204 | -1903 | 48500 | 3.08 | 18.47 | 18.47 | 3.08 | 3 | 0.92 | 0.06 | 0.58 | 0.00 | 0.00 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1B | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1C | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1D | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1E | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1F | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1G | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1H | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1I | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1J | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1K | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1L | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1M | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1N | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1O | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 1P | 35 | -6225 | -6513 | -608 | -786 | -1085 | 30729 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.90 | 0.05 | 0.52 | 0.00 | 0.00 | 9.6 |
| 2 | 35 | -9061 | -9581 | -882 | -1204 | -1596 | 45543 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.94 | 0.07 | 0.70 | 0.00 | 0.00 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1C | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1D | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1E | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1F | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1G | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1H | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1I | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1J | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1K | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1L | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1M | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1N | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1O | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 1P | 70 | -6225 | -7987 | -608 | -786 | -874 | 28206 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.06 | 0.62 | 0.00 | 0.00 | 9.6 |
| 2 | 70 | -9061 | -11757 | -882 | -1204 | -1289 | 41829 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.95 | 0.09 | 0.83 | 0.00 | 0.00 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1B | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1C | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1D | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1E | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1F | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1G | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1H | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1I | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1J | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1K | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1L | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1M | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1N | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1O | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 1P | 104 | -6225 | -9461 | -608 | -786 | -662 | 25169 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.84 | 0.07 | 0.71 | 0.00 | 0.00 | 9.6 |
| 2 | 104 | -9061 | -13934 | -882 | -1204 | -982 | 37357 | 3.08 | 18.47 | 18.47 | 3.08 | 4 | 0.94 | 0.10 | 0.96 | 0.00 | 0.00 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1B | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1C | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1D | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1E | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1F | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1G | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1H | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1I | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1J | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1K | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1L | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1M | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1N | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1O | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 1P | 139 | -6225 | -10935 | -608 | -786 | -451 | 21620 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 9.6 |
| 2 | 139 | -9061 | -16110 | -882 | -1204 | -675 | 32128 | 3.08 | 18.47 | 18.47 | 3.08 | 5 | 0.91 | 0.11 | 1.11 | 5.84 | 0.32 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1B | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1C | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1D | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1E | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1F | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1G | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1H | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1I | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1J | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1K | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1L | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1M | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1N | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1O | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 1P | 174 | -6225 | -12410 | -608 | -786 | -239 | 17557 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.83 | 0.08 | 0.89 | 0.00 | 0.00 | 9.6 |
| 2 | 174 | -9061 | -18287 | -882 | -1204 | -368 | 26141 | 3.08 | 18.47 | 18.47 | 3.08 | 6 | 0.84 | 0.12 | 1.28 | 6.63 | 0.32 | 9.6 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1B | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1C | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1D | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1E | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1F | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1G | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1H | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1I | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1J | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1K | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1L | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1M | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1N | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 1O | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 209 | -6225 | -13884 | -608 | -786 | -28 | 12982 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.77 | 0.09 | 0.98 | 0.00 | 0.00 | 9.6 |
| 2 | 209 | -9061 | -20464 | -882 | -1204 | -61 | 19396 | 3.08 | 18.47 | 18.47 | 3.08 | 2 | 0.88 | 0.14 | 1.48 | 7.41 | 0.32 | 9.6 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1B | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1C | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1D | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1E | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1F | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1G | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1H | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1I | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1J | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1K | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1L | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1M | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1N | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1O | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 1P | 244 | -6225 | -15358 | -608 | -786 | 184 | 7893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.60 | 0.10 | 1.07 | 5.56 | 0.21 | 9.6 |
| 2 | 244 | -9061 | -22640 | -882 | -1204 | 246 | 11893 | 18.47 | 3.08 | 18.47 | 3.08 | 6 | 0.92 | 0.15 | 1.62 | 8.20 | 0.32 | 9.6 |

apost= 15.39 aant= -- ainf= 15.39 asup= -- staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1B | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1C | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1D | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1E | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1F | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1G | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1H | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1I | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1J | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1K | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1L | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1M | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1N | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1O | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 1P | 278 | -6225 | -16832 | -608 | -786 | 395 | 2292 | 18.47 | 3.08 | 18.47 | 9.24 | 5 | 0.04 | 0.11 | 1.16 | 6.10 | 0.21 | 9.6 |
| 2 | 278 | -9061 | -24817 | -882 | -1204 | 553 | 3633 | 18.47 | 3.08 | 18.47 | 9.24 | 6 | 0.07 | 0.16 | 1.75 | 8.99 | 0.32 | 9.6 |

apost= 15.39 aant= -- ainf= 15.39 asup= 6.16 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1B | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1C | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1D | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1E | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1F | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1G | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1H | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1I | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1J | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1K | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1L | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1M | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1N | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1O | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 1P | 313 | -6225 | -18306 | -608 | -786 | 607 | -3823 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.17 | 0.12 | 1.24 | 6.63 | 0.21 | 9.6 |
| 2 | 313 | -9061 | -26993 | -882 | -1204 | 860 | -5385 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.23 | 0.18 | 1.88 | 9.78 | 0.32 | 9.6 |

apost= 15.39 aant= -- ainf= 6.16 asup= 15.39 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1B | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1C | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1D | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1E | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1F | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1G | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1H | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1I | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1J | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1K | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1L | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1M | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1N | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1O | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 1P | 348 | -6225 | -19780 | -608 | -786 | 818 | -10450 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.88 | 0.13 | 1.33 | 7.17 | 0.21 | 9.6 |
| 2 | 348 | -9061 | -29170 | -882 | -1204 | 1167 | -15160 | 18.47 | 3.08 | 9.24 | 18.47 | 4 | 0.86 | 0.19 | 2.02 | 10.57 | 0.32 | 9.0 |

apost= 15.39 aant= -- ainf= 6.16 asup= 15.39 staffe= 2 d 8 / 9.0 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 9** NI 15700 NF 15761 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 29.2500 13.7700 47.8325 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | -- | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1B | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1C | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1D | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1E | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1F | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1G | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1H | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1I | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1J | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1K | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1L | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1M | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1N | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1O | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 1P | 0 | -3647 | 15110 | -10 | -18 | 153 | -10430 | 6.16 | 3.08 | 4.62 | 6.16 | 5 | 0.79 | 0.26 | 2.50 | 8.11 | 0.02 | 11.2 |
| 2 | 0 | -5493 | 23100 | -11 | -27 | 241 | -15750 | 6.16 | 3.08 | 6.16 | 7.70 | 5 | 0.96 | 0.39 | 3.99 | 12.39 | 0.02 | 8.1 |
| apost= 3.08 aant= -- ainf= 3.08 asup= 4.62 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1B | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1C | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1D | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1E | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1F | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1G | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1H | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1I | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1J | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1K | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1L | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1M | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1N | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1O | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 1P | 70 | -3647 | 12128 | -10 | -18 | 159 | -835 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.04 | 0.21 | 2.01 | 6.51 | 0.02 | 15.4 |
| 2 | 70 | -5493 | 18525 | -11 | -27 | 249 | -1085 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.05 | 0.32 | 3.20 | 9.94 | 0.02 | 10.1 |
| apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 10.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1B | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1C | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1D | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1E | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1F | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1G | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1H | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1I | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1J | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1K | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1L | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1M | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1N | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1O | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 1P | 141 | -3647 | 9146 | -10 | -18 | 166 | 6658 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.94 | 0.16 | 1.47 | 4.91 | 0.02 | 19.1 |
| 2 | 141 | -5493 | 13950 | -11 | -27 | 257 | 10357 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.99 | 0.24 | 1.91 | 7.48 | 0.02 | 13.3 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 13.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1B | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1C | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1D | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1E | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1F | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1G | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1H | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1I | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1J | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1K | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1L | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1M | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1N | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1O | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1P | 211 | -3647 | 6164 | -10 | -18 | 173 | 12051 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.92 | 0.11 | 0.81 | 0.00 | 0.00 | 19.1 |
| 2 | 211 | -5493 | 9375 | -11 | -27 | 265 | 18575 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.16 | 1.06 | 5.03 | 0.02 | 19.1 |
| apost= 3.08 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1B | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1C | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1D | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1E | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1F | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1G | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1H | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1I | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1J | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1L | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1M | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1N | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1O | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1P | 282 | -3647 | 3182 | -10 | -18 | 180 | 15342 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.96 | 0.06 | 0.40 | 0.00 | 0.00 | 19.1 |
| 2 | 282 | -5493 | 4800 | -11 | -27 | 273 | 23570 | 6.16 | 3.08 | 12.32 | 3.08 | 4 | 0.95 | 0.08 | 0.51 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1B | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1C | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1D | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1E | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1F | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1G | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1H | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1I | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1J | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1K | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1L | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1M | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1N | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1O | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1P | 352 | -3647 | 200 | -10 | -18 | 187 | 16533 | 6.16 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.01 | 0.04 | 0.00 | 0.00 | 19.1 |
| 2 | 352 | -5493 | 225 | -11 | -27 | 281 | 25341 | 6.16 | 3.08 | 13.85 | 3.08 | 4 | 0.92 | 0.01 | 0.05 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1B | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1C | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1D | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1E | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1F | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1G | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1H | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1I | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1J | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1K | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1L | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1M | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1N | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1O | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1P | 423 | -3647 | -2782 | -10 | -18 | 194 | 15622 | 6.16 | 3.08 | 7.70 | 3.08 | 4 | 0.98 | 0.05 | 0.35 | 0.00 | 0.00 | 19.1 |
| 2 | 423 | -5493 | -4350 | -11 | -27 | 289 | 23888 | 6.16 | 3.08 | 12.32 | 3.08 | 4 | 0.96 | 0.08 | 0.47 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1B | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1C | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1D | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1E | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1F | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1G | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1H | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1I | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1J | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1K | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1L | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1M | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1N | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1O | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 1P | 493 | -3647 | -5764 | -10 | -18 | 201 | 12610 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.97 | 0.10 | 0.76 | 0.00 | 0.00 | 19.1 |
| 2 | 493 | -5493 | -8925 | -11 | -27 | 297 | 19211 | 6.16 | 3.08 | 10.78 | 3.08 | 4 | 0.87 | 0.15 | 0.96 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1B | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1C | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1D | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1E | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1F | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1G | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1H | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1I | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1J | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1K | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1L | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1M | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1N | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1O | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 1P | 564 | -3647 | -8746 | -10 | -18 | 207 | 7497 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.72 | 0.15 | 1.24 | 4.69 | 0.02 | 19.1 |
| 2 | 564 | -5493 | -13500 | -11 | -27 | 305 | 11311 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.83 | 0.23 | 1.70 | 7.24 | 0.02 | 13.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 13.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1B | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1C | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1D | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1F | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1G | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1H | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1I | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1J | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1K | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1L | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1M | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1N | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1O | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 1P | 634 | -3647 | -11728 | -10 | -18 | 214 | 282 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.20 | 1.88 | 6.29 | 0.02 | 15.9 |
| 2 | 634 | -5493 | -18075 | -11 | -27 | 313 | 187 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.03 | 0.31 | 2.78 | 9.70 | 0.02 | 10.3 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 10.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1B | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1C | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1D | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1E | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1F | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1G | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1H | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1I | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1J | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1K | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1L | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1M | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1N | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1O | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 1P | 705 | -3647 | -14710 | -10 | -18 | 221 | -9033 | 6.16 | 3.08 | 4.62 | 6.16 | 4 | 0.89 | 0.25 | 2.43 | 7.89 | 0.02 | 11.2 |
| 2 | 705 | -5493 | -22650 | -11 | -27 | 321 | -14160 | 6.16 | 3.08 | 6.16 | 7.70 | 4 | 0.86 | 0.39 | 3.91 | 12.15 | 0.02 | 8.2 |

apost= 3.08 aant= -- ainf= 3.08 asup= 4.62 staffe= 2 d 8 / 8.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 10** NI 15758 NF 15706 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 29.2500 13.7700 47.8325 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1B | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1C | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1D | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1E | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1F | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1G | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1H | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1I | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1J | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1K | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1L | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1M | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1N | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1O | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 1P | 0 | -1441 | 14660 | -31 | 60 | -252 | -8023 | 3.08 | 6.16 | 4.62 | 6.16 | 3 | 0.84 | 0.26 | 2.35 | 7.87 | 0.05 | 11.2 |
| 2 | 0 | -2162 | 22570 | -35 | 82 | -336 | -12570 | 3.08 | 6.16 | 6.16 | 6.16 | 3 | 1.00 | 0.40 | 3.67 | 12.11 | 0.07 | 8.2 |

apost= -- aant= 3.08 ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 8.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1B | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1C | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1D | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1E | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1F | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1G | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1H | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1I | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1J | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1K | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1L | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1M | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1N | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1O | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 1P | 70 | -1441 | 11678 | -31 | 60 | -230 | 1257 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.15 | 0.21 | 1.89 | 6.27 | 0.05 | 15.8 |
| 2 | 70 | -2162 | 17994 | -35 | 82 | -311 | 1717 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.19 | 0.32 | 2.94 | 9.65 | 0.07 | 10.3 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 10.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1B | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1C | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1D | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1E | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1G | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1H | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1I | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1J | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1K | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1L | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1M | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1N | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1O | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 1P | 141 | -1441 | 8696 | -31 | 60 | -208 | 8437 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.16 | 1.34 | 4.67 | 0.05 | 19.1 |
| 2 | 141 | -2162 | 13418 | -35 | 82 | -286 | 12781 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.82 | 0.24 | 1.73 | 7.20 | 0.07 | 13.7 |

apost= -- aant= 3.08 ainf= 4.62 asup= -- staffe= 2 d 8 / 13.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 211 | -1441 | 5714 | -31 | 60 | -186 | 13515 | 3.08 | 6.16 | 7.70 | 3.08 | 3 | 0.88 | 0.10 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 211 | -2162 | 8842 | -35 | 82 | -261 | 20621 | 3.08 | 6.16 | 10.78 | 3.08 | 3 | 0.97 | 0.16 | 1.06 | 4.74 | 0.07 | 19.1 |

apost= -- aant= 3.08 ainf= 7.70 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1B | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1C | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1D | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1E | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1F | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1G | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1H | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1I | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1J | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1K | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1L | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1M | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1N | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1O | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1P | 282 | -1441 | 2732 | -31 | 60 | -164 | 16492 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.90 | 0.05 | 0.39 | 0.00 | 0.00 | 19.1 |
| 2 | 282 | -2162 | 4266 | -35 | 82 | -236 | 25238 | 3.08 | 6.16 | 13.85 | 3.08 | 4 | 0.94 | 0.08 | 0.52 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 10.78 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1B | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1C | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1D | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1E | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1F | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1G | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1H | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1I | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1J | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1K | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1L | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1M | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1N | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1O | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 1P | 352 | -1441 | -250 | -31 | 60 | -142 | 17368 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.95 | 0.01 | 0.10 | 0.00 | 0.00 | 19.1 |
| 2 | 352 | -2162 | -310 | -35 | 82 | -211 | 26631 | 3.08 | 6.16 | 13.85 | 3.08 | 4 | 0.99 | 0.01 | 0.12 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 10.78 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1B | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1C | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1D | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1E | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1F | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1G | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1H | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1I | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1J | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1K | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1L | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1M | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1N | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1O | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1P | 423 | -1441 | -3232 | -31 | 60 | -120 | 16142 | 3.08 | 6.16 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.44 | 0.00 | 0.00 | 19.1 |
| 2 | 423 | -2162 | -4886 | -35 | 82 | -186 | 24800 | 3.08 | 6.16 | 13.85 | 3.08 | 4 | 0.93 | 0.09 | 0.59 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 10.78 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1B | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1C | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1D | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1E | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1F | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1G | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1H | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1I | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1J | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1K | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1L | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1M | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1N | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1O | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 1P | 493 | -1441 | -6214 | -31 | 60 | -98 | 12816 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.11 | 0.84 | 0.00 | 0.00 | 19.1 |
| 2 | 493 | -2162 | -9462 | -35 | 82 | -161 | 19745 | 3.08 | 6.16 | 10.78 | 3.08 | 4 | 0.93 | 0.17 | 1.13 | 5.08 | 0.07 | 19.1 |

apost= --  aant= 3.08 ainf= 7.70 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1B | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1C | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1D | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1E | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1F | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1G | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1H | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1I | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1J | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1K | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1L | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1M | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1N | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1O | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 1P | 564 | -1441 | -9196 | -31 | 60 | -77 | 7388 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.16 | 1.41 | 4.93 | 0.05 | 19.1 |
| 2 | 564 | -2162 | -14038 | -35 | 82 | -136 | 11467 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.90 | 0.25 | 1.94 | 7.53 | 0.07 | 13.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 13.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1B | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1C | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1D | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1E | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1F | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1G | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1H | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1I | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1J | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1K | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1L | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1M | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1N | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1O | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 1P | 634 | -1441 | -12178 | -31 | 60 | -55 | -140 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.01 | 0.22 | 1.97 | 6.53 | 0.05 | 15.1 |
| 2 | 634 | -2162 | -18614 | -35 | 82 | -111 | -35 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.33 | 3.04 | 9.99 | 0.07 | 9.9 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 9.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1B | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1C | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1D | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1E | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1F | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1G | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1H | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1I | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1J | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1K | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1L | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1M | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1N | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1O | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 1P | 705 | -1441 | -15160 | -31 | 60 | -33 | -9770 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.78 | 0.27 | 2.43 | 8.13 | 0.05 | 11.2 |
| 2 | 705 | -2162 | -23190 | -35 | 82 | -86 | -14760 | 3.08 | 6.16 | 6.16 | 7.70 | 2 | 0.95 | 0.41 | 3.76 | 12.44 | 0.07 | 8.0 |

apost= --  aant= 3.08 ainf= 3.08 asup= 4.62 staffe= 2 d  8 / 8.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 11**  NI 15615  NF 16340  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.1550  5.7222  24.8772  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1B | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1C | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1D | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1E | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1F | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1G | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1H | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1I | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1J | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1K | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1L | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1M | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1N | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1O | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 1P | 0 | -3466 | 10310 | 392 | 218 | 932 | -6697 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.13 | 1.33 | 4.29 | 0.13 | 11.2 |
| 2 | 0 | -5079 | 15320 | 579 | 325 | 1381 | -9860 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.70 | 0.19 | 2.03 | 6.38 | 0.19 | 11.2 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1B | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1C | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1D | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1E | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1F | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1G | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1H | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1I | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1J | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1K | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1L | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1M | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1N | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1O | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 1P | 37 | -3466 | 9482 | 392 | 218 | 788 | -3069 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.12 | 1.24 | 3.95 | 0.13 | 11.2 |
| 2 | 37 | -5079 | 14093 | 579 | 325 | 1169 | -4471 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.36 | 0.18 | 1.88 | 5.87 | 0.19 | 11.2 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1B | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1C | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1D | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1E | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1F | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1G | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1H | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1I | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1J | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1K | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1L | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1M | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1N | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1O | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 1P | 73 | -3466 | 8655 | 392 | 218 | 645 | 256 | 9.24 | 3.08 | 9.24 | 4.62 | 5 | 0.03 | 0.11 | 1.14 | 3.60 | 0.13 | 11.2 |
| 2 | 73 | -5079 | 12865 | 579 | 325 | 957 | 469 | 9.24 | 3.08 | 9.24 | 4.62 | 4 | 0.05 | 0.17 | 1.74 | 5.36 | 0.19 | 11.2 |

apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1B | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1C | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1D | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1E | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1F | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1G | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1H | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1I | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1J | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1K | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1L | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1M | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1N | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1O | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 1P | 110 | -3466 | 7827 | 392 | 218 | 501 | 3277 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.27 | 0.10 | 1.04 | 3.26 | 0.13 | 16.8 |
| 2 | 110 | -5079 | 11637 | 579 | 325 | 745 | 4958 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.42 | 0.15 | 1.59 | 4.85 | 0.19 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1B | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1C | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1D | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1E | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1F | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1G | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1H | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1I | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1J | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1K | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1L | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1M | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1N | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1P | 147 | -3466 | 7000 | 392 | 218 | 358 | 5995 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.61 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 2 | 147 | -5079 | 10410 | 579 | 325 | 533 | 8998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.14 | 1.44 | 4.33 | 0.19 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1B | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1C | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1D | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1E | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1F | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1G | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1H | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1I | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1J | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1K | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1L | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1M | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1N | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1O | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1P | 183 | -3466 | 6172 | 392 | 218 | 214 | 8410 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.08 | 0.85 | 0.00 | 0.00 | 16.8 |
| 2 | 183 | -5079 | 9182 | 579 | 325 | 320 | 12588 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.12 | 1.23 | 3.82 | 0.19 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1B | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1C | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1D | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1E | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1F | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1G | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1H | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1I | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1J | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1K | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1L | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1M | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1N | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1O | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 1P | 220 | -3466 | 5344 | 391 | 218 | 71 | 10521 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.79 | 0.07 | 0.75 | 0.00 | 0.00 | 16.8 |
| 2 | 220 | -5079 | 7955 | 579 | 325 | 108 | 15728 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.11 | 1.01 | 3.31 | 0.19 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1B | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1C | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1D | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1E | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1F | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1G | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1H | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1I | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1J | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1K | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1L | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1M | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1N | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1O | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1P | 257 | -3466 | 4517 | 391 | 218 | -73 | 12328 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.94 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 2 | 257 | -5079 | 6728 | 579 | 325 | -104 | 18418 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.86 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1B | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1C | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1D | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1E | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1F | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1G | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1H | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1I | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1J | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1K | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1L | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1M | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1N | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1O | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1P | 293 | -3466 | 3689 | 392 | 218 | -216 | 13832 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.81 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 2 | 293 | -5079 | 5500 | 579 | 325 | -316 | 20659 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.97 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1D | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 330 | -3466 | 2862 | 392 | 218 | -360 | 15033 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.88 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 330 | -5079 | 4272 | 579 | 325 | -528 | 22449 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.89 | 0.07 | 0.58 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1B | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1C | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1D | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1E | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1F | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1G | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1H | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1I | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1J | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1K | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1L | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1M | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1N | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1O | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1P | 367 | -3466 | 2034 | 392 | 218 | -503 | 15930 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.94 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 2 | 367 | -5079 | 3045 | 579 | 325 | -740 | 23790 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.95 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 12**  NI 16340  NF 15987  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.1550  5.7222  24.8772  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -3320 | -2570 | 711 | -50 | 981 | 16160 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.03 | 0.30 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -4857 | -3970 | 1065 | -85 | 1475 | 24140 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1B | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1C | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1D | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1E | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1F | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1G | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1H | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1I | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1J | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1K | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1L | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1M | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1N | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1O | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1P | 37 | -3320 | -3411 | 711 | -50 | 716 | 15046 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 2 | 37 | -4857 | -5217 | 1065 | -85 | 1078 | 22429 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1C | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 74 | -3320 | -4252 | 711 | -50 | 451 | 13619 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.80 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 74 | -4857 | -6464 | 1065 | -85 | 681 | 20254 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.96 | 0.08 | 0.67 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1B | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1C | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1D | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1E | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1F | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1G | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1H | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1I | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1J | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1K | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1L | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1M | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1N | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1O | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 1P | 112 | -3320 | -5093 | 711 | -50 | 187 | 11878 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.06 | 0.62 | 0.00 | 0.00 | 16.8 |
| 2 | 112 | -4857 | -7711 | 1065 | -85 | 285 | 17615 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.09 | 0.79 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1B | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1C | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1D | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1E | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1F | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1G | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1H | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1I | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1J | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1K | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1L | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1M | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1N | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1O | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1P | 149 | -3320 | -5934 | 711 | -50 | -78 | 9825 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.74 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 2 | 149 | -4857 | -8958 | 1065 | -85 | -112 | 14511 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.82 | 0.11 | 0.97 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1B | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1C | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1D | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1E | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1F | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1G | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1H | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1I | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1J | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1K | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1L | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1M | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1N | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1O | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1P | 186 | -3320 | -6775 | 711 | -50 | -343 | 7457 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.80 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 2 | 186 | -4857 | -10205 | 1065 | -85 | -509 | 10942 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.79 | 0.12 | 1.20 | 4.25 | 0.05 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1B | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1C | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1D | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1E | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1F | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1G | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1H | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1I | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1J | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1K | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1L | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1M | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1N | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1O | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1P | 223 | -3320 | -7616 | 711 | -50 | -608 | 4777 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.47 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 2 | 223 | -4857 | -11452 | 1065 | -85 | -906 | 6909 | 3.08 | 9.24 | 9.24 | 3.08 | 3 | 0.67 | 0.14 | 1.42 | 4.77 | 0.05 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1B | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1C | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1E | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1F | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1G | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1H | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1I | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1J | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1K | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1L | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1M | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1N | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1O | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 1P | 261 | -3320 | -8457 | 711 | -50 | -873 | 1782 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.10 | 0.10 | 1.01 | 3.52 | 0.03 | 16.8 |
| 2 | 261 | -4857 | -12699 | 1065 | -85 | -1303 | 2411 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.12 | 0.15 | 1.56 | 5.29 | 0.05 | 16.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1B | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1C | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1D | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1E | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1F | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1G | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1H | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1I | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1J | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1K | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1L | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1M | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1N | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1O | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 1P | 298 | -3320 | -9298 | 711 | -50 | -1137 | -1525 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.13 | 0.11 | 1.11 | 3.87 | 0.03 | 11.2 |
| 2 | 298 | -4857 | -13946 | 1065 | -85 | -1699 | -2552 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.19 | 0.17 | 1.71 | 5.81 | 0.05 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1B | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1C | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1D | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1E | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1F | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1G | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1H | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1I | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1J | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1K | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1L | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1M | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1N | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1O | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 1P | 335 | -3320 | -10139 | 711 | -50 | -1402 | -5146 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.51 | 0.12 | 1.21 | 4.22 | 0.03 | 11.2 |
| 2 | 335 | -4857 | -15193 | 1065 | -85 | -2096 | -7979 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.81 | 0.18 | 1.86 | 6.33 | 0.05 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1B | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1C | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1D | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1E | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1F | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1G | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1H | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1I | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1J | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1K | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1L | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1M | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1N | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1O | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 1P | 372 | -3320 | -10980 | 711 | -50 | -1667 | -9080 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.68 | 0.13 | 1.31 | 4.57 | 0.03 | 11.2 |
| 2 | 372 | -4857 | -16440 | 1065 | -85 | -2493 | -13870 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.78 | 0.20 | 2.01 | 6.85 | 0.05 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 15**  NI 15985  NF 15873  SEZ.  Rp  B= 40.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  5.5000  15.6000  7.3440  28.4440  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1B | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1C | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1D | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1F | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1G | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1H | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1I | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1J | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1K | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1L | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1M | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1N | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1O | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 1P | 0 | -2828 | 9772 | 382 | -177 | 1596 | -8348 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.84 | 0.16 | 1.52 | 5.24 | 0.13 | 11.2 |
| 2 | 0 | -4258 | 14750 | 563 | -254 | 2355 | -12680 | 7.70 | 3.08 | 4.62 | 7.70 | 2 | 0.96 | 0.24 | 2.34 | 7.91 | 0.19 | 11.2 |

apost= 4.62 aant= -- ainf= 1.54 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1B | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1C | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1D | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1E | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1F | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1G | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1H | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1I | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1J | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1K | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1L | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1M | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1N | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1O | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 1P | 74 | -2828 | 7895 | 382 | -177 | 1315 | -1848 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.19 | 0.13 | 1.26 | 4.24 | 0.13 | 16.8 |
| 2 | 74 | -4258 | 11921 | 563 | -254 | 1941 | -2866 | 7.70 | 3.08 | 3.08 | 7.70 | 2 | 0.30 | 0.20 | 1.93 | 6.40 | 0.19 | 14.8 |

apost= 4.62 aant= -- ainf= -- asup= 4.62 staffe= 2 d 8 / 14.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1B | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1C | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1D | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1E | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1F | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1G | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1H | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1I | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1J | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1K | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1L | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1M | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1N | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1O | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 1P | 147 | -2828 | 6018 | 382 | -177 | 1033 | 3271 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.42 | 0.10 | 0.99 | 0.00 | 0.00 | 16.8 |
| 2 | 147 | -4258 | 9092 | 563 | -254 | 1527 | 4867 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.62 | 0.15 | 1.53 | 4.88 | 0.19 | 16.8 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1B | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1C | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1D | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1E | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1F | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1G | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1H | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1I | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1J | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1K | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1L | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1M | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1N | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1O | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 1P | 221 | -2828 | 4141 | 382 | -177 | 752 | 7008 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.69 | 0.08 | 0.70 | 0.00 | 0.00 | 16.8 |
| 2 | 221 | -4258 | 6263 | 563 | -254 | 1113 | 10517 | 7.70 | 3.08 | 7.70 | 3.08 | 2 | 0.78 | 0.11 | 0.95 | 0.00 | 0.00 | 16.8 |

apost= 4.62 aant= -- ainf= 4.62 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -2828 | 2264 | 382 | -177 | 470 | 9365 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.95 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -4258 | 3434 | 563 | -254 | 699 | 14086 | 7.70 | 3.08 | 7.70 | 3.08 | 3 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |

apost= 4.62 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1B | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1C | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1D | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1E | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1F | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1G | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1H | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1I | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1J | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1K | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1L | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1M | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1N | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1O | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1P | 368 | -2828 | 388 | 382 | -177 | 189 | 10340 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.80 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 2 | 368 | -4258 | 605 | 563 | -254 | 284 | 15573 | 7.70 | 3.08 | 7.70 | 3.08 | 4 | 0.97 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |

apost= 4.62 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1B | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1C | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1D | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1E | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1F | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1G | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1H | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1I | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1J | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1K | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1L | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1M | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1N | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1O | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1P | 442 | -2828 | -1489 | 382 | -177 | -92 | 9935 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.76 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 2 | 442 | -4258 | -2224 | 563 | -254 | -130 | 14978 | 3.08 | 7.70 | 7.70 | 3.08 | 6 | 0.93 | 0.05 | 0.46 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 4.62 ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1B | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1C | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1D | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1E | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1F | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1G | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1H | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1I | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1J | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1K | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1L | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1M | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1N | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1O | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1P | 515 | -2828 | -3366 | 382 | -177 | -374 | 8148 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.81 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 2 | 515 | -4258 | -5053 | 563 | -254 | -544 | 12302 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.93 | 0.09 | 0.81 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 4.62 ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1B | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1C | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1D | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1E | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1F | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1G | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1H | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1I | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1J | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1K | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1L | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1M | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1N | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1O | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1P | 589 | -2828 | -5243 | 382 | -177 | -655 | 4980 | 3.08 | 7.70 | 7.70 | 3.08 | 2 | 0.70 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 2 | 589 | -4258 | -7882 | 563 | -254 | -958 | 7543 | 3.08 | 7.70 | 7.70 | 3.08 | 3 | 0.71 | 0.14 | 1.23 | 4.23 | 0.19 | 16.8 |

apost= --  aant= 4.62 ainf= 4.62 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1B | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1C | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1D | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1E | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1F | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1G | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1H | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1I | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1J | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1K | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1L | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1N | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1O | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 1P | 662 | -2828 | -7120 | 382 | -177 | -937 | 430 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.10 | 0.12 | 1.15 | 3.82 | 0.13 | 16.8 |
| 2 | 662 | -4258 | -10711 | 563 | -254 | -1372 | 703 | 3.08 | 7.70 | 7.70 | 3.08 | 4 | 0.15 | 0.18 | 1.76 | 5.75 | 0.19 | 16.4 |

apost= --  aant= 4.62 ainf= 4.62 asup= --  staffe= 2 d  8 / 16.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1B | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1C | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1D | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1E | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1F | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1G | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1H | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1I | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1J | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1K | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1L | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1M | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1N | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1O | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 1P | 736 | -2828 | -8997 | 382 | -177 | -1218 | -5500 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.15 | 1.41 | 4.83 | 0.13 | 11.2 |
| 2 | 736 | -4258 | -13540 | 563 | -254 | -1786 | -8219 | 3.08 | 7.70 | 4.62 | 7.70 | 2 | 0.78 | 0.22 | 2.17 | 7.26 | 0.19 | 11.2 |

apost= --  aant= 4.62 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 17**  NI 15960  NF 15936  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  7.1400  6.2424  18.1949  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1B | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1C | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1D | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1E | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1F | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1G | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1H | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1I | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1J | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1K | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1L | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1M | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1N | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1O | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1P | 0 | -1349 | 5303 | 101 | 30 | 328 | -3065 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 2 | 0 | -2149 | 8406 | 136 | 53 | 434 | -4834 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.70 | 0.15 | 1.39 | 4.51 | 0.05 | 11.2 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1B | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1C | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1D | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1E | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1F | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1G | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1H | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1I | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1J | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1K | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1L | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1M | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1N | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1O | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 1P | 68 | -1349 | 4232 | 101 | 30 | 259 | 188 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.08 | 0.69 | 0.00 | 0.00 | 11.2 |
| 2 | 68 | -2149 | 6707 | 136 | 53 | 341 | 323 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.12 | 1.12 | 3.60 | 0.05 | 11.2 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1B | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1C | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1D | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1E | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1F | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1G | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1H | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1I | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1J | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1K | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1L | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1M | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1O | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 1P | 136 | -1349 | 3160 | 101 | 30 | 191 | 2711 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.39 | 0.06 | 0.52 | 0.00 | 0.00 | 19.1 |
| 2 | 136 | -2149 | 5007 | 136 | 53 | 248 | 4320 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.62 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1B | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1C | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1D | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1E | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1F | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1G | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1H | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1I | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1J | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1K | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1L | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1M | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1N | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1O | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1P | 205 | -1349 | 2089 | 101 | 30 | 122 | 4502 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.68 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 2 | 205 | -2149 | 3308 | 136 | 53 | 155 | 7157 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.73 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1B | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1C | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1D | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1E | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1F | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1G | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1H | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1I | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1J | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1K | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1L | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1M | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1N | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1O | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1P | 273 | -1349 | 1018 | 101 | 30 | 53 | 5562 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.85 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 2 | 273 | -2149 | 1608 | 136 | 53 | 62 | 8835 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.03 | 0.29 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1B | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1C | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1D | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1E | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1F | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1G | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1H | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1I | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1J | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1K | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1L | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1M | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1N | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1O | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 1P | 341 | -1349 | -53 | 101 | 30 | -16 | 5891 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.91 | 0.00 | 0.04 | 0.00 | 0.00 | 19.1 |
| 2 | 341 | -2149 | -91 | 136 | 53 | -31 | 9353 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.97 | 0.01 | 0.07 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1B | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1C | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1D | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1E | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1F | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1G | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1H | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1I | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1J | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1K | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1L | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1M | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1N | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1O | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1P | 409 | -1349 | -1125 | 101 | 30 | -84 | 5489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 2 | 409 | -2149 | -1790 | 136 | 53 | -124 | 8711 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.90 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1B | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1C | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1D | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1E | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1F | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1G | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1I | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1J | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1K | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1L | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1M | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1N | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1O | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 1P | 478 | -1349 | -2196 | 101 | 30 | -153 | 4355 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.66 | 0.04 | 0.37 | 0.00 | 0.00 | 19.1 |
| 2 | 478 | -2149 | -3490 | 136 | 53 | -217 | 6909 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.70 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1B | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1C | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1D | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1E | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1F | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1G | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1H | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1I | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1J | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1K | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1L | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1M | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1N | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1O | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1P | 546 | -1349 | -3267 | 101 | 30 | -222 | 2491 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.35 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 2 | 546 | -2149 | -5189 | 136 | 53 | -310 | 3947 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.56 | 0.09 | 0.88 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1B | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1C | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1D | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1E | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1F | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1G | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1H | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1I | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1J | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1K | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1L | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1M | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1N | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1O | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 1P | 614 | -1349 | -4339 | 101 | 30 | -291 | -104 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.08 | 0.71 | 0.00 | 0.00 | 11.2 |
| 2 | 614 | -2149 | -6889 | 136 | 53 | -403 | -174 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.12 | 1.15 | 3.70 | 0.05 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1B | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1C | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1D | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1E | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1F | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1G | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1H | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1I | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1J | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1K | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1L | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1M | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1N | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1O | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1P | 682 | -1349 | -5410 | 101 | 30 | -359 | -3431 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.50 | 0.10 | 0.87 | 0.00 | 0.00 | 11.2 |
| 2 | 682 | -2149 | -8588 | 136 | 53 | -496 | -5455 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.80 | 0.15 | 1.42 | 4.61 | 0.05 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 18**  NI 16056  NF 16158  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  12.4080  5.3856  22.6061  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1B | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1C | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1D | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1E | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1F | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1G | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1H | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1J | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1K | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1L | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1M | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1N | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1O | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 1P | 0 | -3008 | 7403 | 512 | 75 | 1006 | -5242 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.73 | 0.13 | 1.28 | 3.97 | 0.07 | 11.2 |
| 2 | 0 | -4879 | 11380 | 729 | 182 | 1436 | -8563 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.81 | 0.21 | 2.12 | 6.11 | 0.16 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1B | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1C | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1D | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1E | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1F | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1G | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1H | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1I | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1J | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1K | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1L | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1M | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1N | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1O | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 1P | 35 | -3008 | 6688 | 512 | 75 | 827 | -2781 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.33 | 0.12 | 1.16 | 3.59 | 0.07 | 11.2 |
| 2 | 35 | -4879 | 10316 | 729 | 182 | 1181 | -4772 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.58 | 0.19 | 1.94 | 5.53 | 0.16 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1B | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1C | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1D | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1E | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1F | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1G | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1H | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1I | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1J | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1K | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1L | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1M | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1N | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1O | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 1P | 70 | -3008 | 5974 | 512 | 75 | 648 | -569 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.06 | 0.11 | 1.05 | 3.21 | 0.07 | 11.2 |
| 2 | 70 | -4879 | 9252 | 729 | 182 | 927 | -1354 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.08 | 0.17 | 1.76 | 4.96 | 0.16 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -3008 | 5259 | 512 | 75 | 469 | 1393 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.11 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -4879 | 8188 | 729 | 182 | 672 | 1693 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.10 | 0.16 | 1.46 | 4.39 | 0.16 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -3008 | 4545 | 512 | 75 | 290 | 3106 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.39 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -4879 | 7124 | 729 | 182 | 418 | 4368 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.14 | 1.30 | 3.82 | 0.16 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1G | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1K | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1O | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -3008 | 3830 | 512 | 75 | 112 | 4569 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.62 | 0.07 | 0.70 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -4879 | 6060 | 729 | 182 | 163 | 6672 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.89 | 0.12 | 1.14 | 3.25 | 0.16 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1C | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1G | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -3008 | 3116 | 512 | 75 | -67 | 5782 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -4879 | 4996 | 729 | 182 | -92 | 8603 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.10 | 0.88 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -3008 | 2401 | 512 | 75 | -246 | 6746 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.05 | 0.47 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -4879 | 3932 | 729 | 182 | -346 | 10163 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.98 | 0.08 | 0.74 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -3008 | 1687 | 512 | 75 | -425 | 7460 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -4879 | 2868 | 729 | 182 | -601 | 11350 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.84 | 0.07 | 0.56 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -3008 | 972 | 512 | 75 | -604 | 7924 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.79 | 0.02 | 0.22 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 314 | -4879 | 1804 | 729 | 182 | -855 | 12166 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.91 | 0.05 | 0.43 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1E | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1I | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1M | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -3008 | 257 | 512 | 75 | -783 | 8139 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 2 | 349 | -4879 | 740 | 729 | 182 | -1110 | 12610 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 19** NI 16158 NF 16159 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 12.4080 5.3856 22.6061 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -3027 | -5458 | 480 | 177 | 613 | 8367 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.84 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -4927 | -7968 | 689 | 275 | 876 | 12910 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.97 | 0.16 | 1.30 | 4.28 | 0.24 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1B | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1C | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1D | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1E | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1F | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1G | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1H | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1I | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1J | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1K | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1L | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1M | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1N | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1O | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 1P | 33 | -3027 | -6138 | 480 | 177 | 453 | 6439 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.93 | 0.12 | 1.18 | 3.29 | 0.16 | 19.1 |
| 2 | 33 | -4927 | -8981 | 689 | 275 | 647 | 10093 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.97 | 0.18 | 1.53 | 4.82 | 0.24 | 18.9 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 18.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1B | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1C | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1D | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1E | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1F | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1G | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1H | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1I | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1J | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1K | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1L | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1M | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1N | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1O | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 1P | 67 | -3027 | -6818 | 480 | 177 | 294 | 4284 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.58 | 0.13 | 1.29 | 3.66 | 0.16 | 19.1 |
| 2 | 67 | -4927 | -9994 | 689 | 275 | 418 | 6938 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.93 | 0.20 | 1.84 | 5.36 | 0.24 | 17.2 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 17.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1B | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1C | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1D | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1E | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1F | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1G | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1H | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1I | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1J | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1K | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1L | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1M | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1N | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1O | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 1P | 100 | -3027 | -7499 | 480 | 177 | 134 | 1904 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.19 | 0.14 | 1.40 | 4.02 | 0.16 | 19.1 |
| 2 | 100 | -4927 | -11008 | 689 | 275 | 189 | 3448 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.37 | 0.21 | 2.00 | 5.91 | 0.24 | 15.7 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 15.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1B | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1C | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1D | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1E | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1F | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1G | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1H | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1I | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1J | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1K | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1L | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1M | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1N | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1O | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 1P | 133 | -3027 | -8179 | 480 | 177 | -26 | -703 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.03 | 0.16 | 1.52 | 4.39 | 0.16 | 19.1 |
| 2 | 133 | -4927 | -12021 | 689 | 275 | -40 | -380 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.02 | 0.23 | 2.33 | 6.45 | 0.24 | 14.5 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 14.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1B | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1C | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1D | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1E | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1F | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1G | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1H | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1I | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1J | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1K | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1L | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1M | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1N | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1O | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 1P | 166 | -3027 | -8859 | 480 | 177 | -185 | -3535 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.45 | 0.17 | 1.63 | 4.75 | 0.16 | 19.1 |
| 2 | 166 | -4927 | -13034 | 689 | 275 | -269 | -4545 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.54 | 0.25 | 2.51 | 6.99 | 0.24 | 13.4 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1B | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1C | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1D | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1E | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1F | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1G | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1H | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1I | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1J | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1K | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1L | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1M | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1N | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1O | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 1P | 200 | -3027 | -9539 | 480 | 177 | -345 | -6594 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.18 | 1.74 | 5.12 | 0.16 | 18.5 |
| 2 | 200 | -4927 | -14047 | 689 | 275 | -497 | -9046 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.86 | 0.26 | 2.68 | 7.54 | 0.24 | 12.5 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 12.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1B | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1C | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1D | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1E | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1F | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1G | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1H | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1I | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1J | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1K | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1M | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1N | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1O | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 1P | 233 | -3027 | -10219 | 480 | 177 | -505 | -9879 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.76 | 0.19 | 1.85 | 5.48 | 0.16 | 17.3 |
| 2 | 233 | -4927 | -15060 | 689 | 275 | -726 | -13884 | 3.08 | 6.16 | 3.08 | 7.70 | 3 | 0.85 | 0.28 | 2.85 | 8.08 | 0.24 | 11.7 |

apost= --  aant= 3.08 ainf= --  asup= 4.62 staffe= 2 d  8 / 11.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1B | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1C | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1D | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1E | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1F | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1G | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1H | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1I | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1J | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1K | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1L | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1M | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1N | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1O | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 1P | 266 | -3027 | -10900 | 480 | 177 | -664 | -13390 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.84 | 0.20 | 1.96 | 5.85 | 0.16 | 11.2 |
| 2 | 266 | -4927 | -16074 | 689 | 275 | -955 | -19060 | 3.08 | 6.16 | 6.16 | 10.78 | 3 | 0.86 | 0.30 | 3.02 | 8.62 | 0.24 | 11.0 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 11.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1B | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1C | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1D | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1E | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1F | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1G | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1H | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1I | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1J | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1K | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1L | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1M | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1N | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1O | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 1P | 299 | -3027 | -11580 | 480 | 177 | -824 | -17127 | 3.08 | 6.16 | 6.16 | 9.24 | 2 | 0.91 | 0.21 | 2.07 | 6.21 | 0.16 | 11.2 |
| 2 | 299 | -4927 | -17087 | 688 | 275 | -1184 | -24571 | 3.08 | 6.16 | 6.16 | 12.32 | 2 | 1.00 | 0.32 | 3.19 | 9.17 | 0.24 | 10.4 |

apost= --  aant= 3.08 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 10.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1B | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1C | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1D | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1E | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1F | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1G | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1H | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1I | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1J | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1K | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1L | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1M | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1N | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1O | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 1P | 333 | -3027 | -12260 | 480 | 177 | -984 | -19251 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.88 | 0.23 | 2.18 | 6.58 | 0.16 | 11.2 |
| 2 | 333 | -4927 | -18100 | 689 | 275 | -1413 | -27705 | 3.08 | 6.16 | 7.70 | 15.39 | 3 | 0.93 | 0.33 | 3.36 | 9.71 | 0.24 | 9.9 |

apost= --  aant= 3.08 ainf= 4.62 asup= 12.32 staffe= 2 d  8 / 9.9  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20**  NI 16055  NF 16162  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  7.1280  5.3856  17.3261  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1B | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1C | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1D | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1E | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1F | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1G | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1H | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1I | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1J | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1K | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1L | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1N | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1O | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 1P | 0 | -1397 | 6384 | 120 | -27 | 107 | -6162 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.11 | 1.02 | 3.43 | 0.02 | 11.2 |
| 2 | 0 | -2001 | 10360 | 175 | -18 | 169 | -10630 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.84 | 0.18 | 1.66 | 5.56 | 0.02 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1B | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1C | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1D | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1E | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1F | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1G | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1H | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1I | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1J | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1K | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1L | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1M | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1N | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1O | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1P | 35 | -1397 | 5854 | 120 | -27 | 65 | -4024 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.60 | 0.10 | 0.94 | 0.00 | 0.00 | 11.2 |
| 2 | 35 | -2001 | 9536 | 175 | -18 | 108 | -7154 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.73 | 0.17 | 1.53 | 5.12 | 0.02 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1B | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1C | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1D | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1E | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1F | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1G | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1H | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1I | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1J | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1K | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1L | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1M | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1N | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1O | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 1P | 70 | -1397 | 5324 | 120 | -27 | 24 | -2072 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.28 | 0.09 | 0.86 | 0.00 | 0.00 | 11.2 |
| 2 | 70 | -2001 | 8712 | 175 | -18 | 47 | -3965 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.57 | 0.15 | 1.39 | 4.67 | 0.02 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -1397 | 4794 | 120 | -27 | -18 | -304 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.01 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -2001 | 7887 | 175 | -18 | -14 | -1065 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.10 | 0.14 | 1.26 | 4.23 | 0.02 | 19.1 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -1397 | 4264 | 120 | -27 | -60 | 1278 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.15 | 0.08 | 0.69 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -2001 | 7063 | 175 | -18 | -75 | 1547 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.17 | 0.12 | 1.13 | 3.79 | 0.02 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1C | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1K | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1O | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -1397 | 3734 | 120 | -27 | -102 | 2675 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.38 | 0.07 | 0.61 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -2001 | 6239 | 175 | -18 | -136 | 3871 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.55 | 0.11 | 1.00 | 3.35 | 0.02 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1C | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1G | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -1397 | 3203 | 120 | -27 | -144 | 3887 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.58 | 0.06 | 0.53 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -2001 | 5415 | 175 | -18 | -197 | 5907 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.88 | 0.09 | 0.87 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -1397 | 2673 | 120 | -27 | -185 | 4913 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -2001 | 4591 | 175 | -18 | -258 | 7655 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.78 | 0.08 | 0.68 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -1397 | 2143 | 120 | -27 | -227 | 5755 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.88 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -2001 | 3766 | 175 | -18 | -320 | 9115 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.94 | 0.07 | 0.56 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -1397 | 1613 | 120 | -27 | -269 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.99 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 2 | 314 | -2001 | 2942 | 175 | -18 | -381 | 10286 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.81 | 0.05 | 0.41 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1E | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1I | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1M | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -1397 | 1083 | 120 | -27 | -311 | 6882 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.02 | 0.19 | 0.00 | 0.00 | 19.1 |
| 2 | 349 | -2001 | 2118 | 175 | -18 | -442 | 11170 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.88 | 0.04 | 0.30 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 21**  NI 16162  NF 16163  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  7.1280  5.3856  17.3261  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -1737 | -4226 | 239 | -181 | 323 | 6763 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.69 | 0.09 | 0.81 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -2457 | -6369 | 355 | -327 | 476 | 10990 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.86 | 0.14 | 1.19 | 3.42 | 0.29 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1B | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1C | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1D | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1E | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1F | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1G | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1H | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1I | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1J | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1K | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1L | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1M | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1N | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1O | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1P | 33 | -1737 | -4731 | 239 | -181 | 243 | 5275 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.79 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 2 | 33 | -2457 | -7154 | 355 | -327 | 357 | 8742 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.89 | 0.15 | 1.39 | 3.84 | 0.29 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1B | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1C | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1D | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1E | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1F | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1G | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1H | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1I | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1J | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1K | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1L | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1M | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1N | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1O | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 1P | 67 | -1737 | -5235 | 239 | -181 | 164 | 3618 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.52 | 0.11 | 1.02 | 2.81 | 0.16 | 19.1 |
| 2 | 67 | -2457 | -7939 | 355 | -327 | 239 | 6233 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.92 | 0.17 | 1.63 | 4.26 | 0.29 | 19.1 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1C | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1D | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1E | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1F | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1G | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1H | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1I | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1J | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1K | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1L | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1M | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1N | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1O | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 1P | 100 | -1737 | -5739 | 239 | -181 | 84 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.12 | 1.10 | 3.08 | 0.16 | 19.1 |
| 2 | 100 | -2457 | -8724 | 355 | -327 | 121 | 3464 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.47 | 0.18 | 1.75 | 4.68 | 0.29 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1B | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1C | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1D | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1E | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1F | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1G | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1H | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1I | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1J | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1K | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1L | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1M | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1N | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1O | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 1P | 133 | -1737 | -6244 | 239 | -181 | 5 | -197 | 3.08 | 3.08 | 3.08 | 6.16 | 4 | 0.01 | 0.12 | 1.18 | 3.35 | 0.16 | 19.1 |
| 2 | 133 | -2457 | -9509 | 355 | -327 | 3 | 433 | 3.08 | 3.08 | 6.16 | 3.08 | 4 | 0.02 | 0.19 | 1.88 | 5.10 | 0.29 | 17.7 |

apost= -- aant= -- ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 17.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1B | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1C | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1D | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1E | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1F | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1G | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1H | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1I | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1J | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1K | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1L | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1M | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1N | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1O | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 1P | 166 | -1737 | -6749 | 239 | -181 | -74 | -2357 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.31 | 0.13 | 1.26 | 3.62 | 0.16 | 19.1 |
| 2 | 166 | -2457 | -10295 | 355 | -327 | -115 | -2858 | 3.08 | 6.16 | 3.08 | 6.16 | 5 | 0.37 | 0.21 | 2.00 | 5.52 | 0.29 | 16.5 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1B | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1C | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1D | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1E | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1F | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1G | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1H | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1I | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1J | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1K | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1L | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1M | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1N | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1O | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 1P | 200 | -1737 | -7253 | 239 | -181 | -154 | -4684 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.69 | 0.14 | 1.34 | 3.89 | 0.16 | 19.1 |
| 2 | 200 | -2457 | -11080 | 355 | -327 | -233 | -6411 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.95 | 0.22 | 2.13 | 5.94 | 0.29 | 15.4 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 15.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1B | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1C | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1D | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1E | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1F | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1G | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1H | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1I | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1J | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1K | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1L | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1M | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1N | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 1O | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 233 | -1737 | -7757 | 239 | -181 | -233 | -7179 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.74 | 0.15 | 1.42 | 4.16 | 0.16 | 19.1 |
| 2 | 233 | -2457 | -11865 | 355 | -327 | -351 | -10224 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.80 | 0.23 | 2.25 | 6.37 | 0.29 | 14.5 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 14.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1B | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1C | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1D | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1E | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1F | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1G | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1H | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1I | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1J | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1K | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1L | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1M | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1N | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1O | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 1P | 266 | -1737 | -8262 | 239 | -181 | -313 | -9842 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.78 | 0.16 | 1.50 | 4.43 | 0.16 | 11.2 |
| 2 | 266 | -2457 | -12650 | 355 | -327 | -469 | -14299 | 3.08 | 6.16 | 4.62 | 7.70 | 3 | 0.91 | 0.25 | 2.38 | 6.79 | 0.29 | 11.2 |

apost= -- aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1B | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1C | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1D | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1E | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1F | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1G | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1H | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1I | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1J | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1K | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1L | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1M | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1N | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1O | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 1P | 299 | -1737 | -8767 | 239 | -181 | -392 | -12672 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.81 | 0.17 | 1.58 | 4.70 | 0.16 | 11.2 |
| 2 | 299 | -2457 | -13435 | 355 | -327 | -587 | -18634 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.87 | 0.26 | 2.50 | 7.21 | 0.29 | 11.2 |

apost= -- aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1B | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1C | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1D | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1E | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1F | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1G | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1H | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1I | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1J | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1K | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1L | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1M | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1N | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1O | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 1P | 333 | -1737 | -9271 | 239 | -181 | -472 | -14279 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.92 | 0.18 | 1.65 | 4.97 | 0.16 | 11.2 |
| 2 | 333 | -2457 | -14220 | 355 | -327 | -705 | -21097 | 3.08 | 6.16 | 6.16 | 10.78 | 2 | 0.99 | 0.27 | 2.63 | 7.63 | 0.29 | 11.2 |

apost= -- aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22** NI 16057 NF 16166 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.6440 5.3856 16.8421 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1B | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1C | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1D | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1E | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1F | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1G | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1H | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1I | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1J | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1K | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1L | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1M | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1N | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1O | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |
| 1P | 0 | -4920 | 6494 | 15 | -15 | 2 | -6654 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.89 | 0.11 | 1.11 | 3.48 | 0.01 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0 | -7827 | 10650 | -11 | -8 | -59 | -11620 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.18 | 1.94 | 5.71 | 0.01 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1B | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1C | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1D | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1E | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1F | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1G | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1H | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1I | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1J | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1K | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1L | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1M | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1N | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1O | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 1P | 35 | -4920 | 5981 | 15 | -15 | -3 | -4475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.53 | 0.10 | 1.03 | 3.21 | 0.01 | 11.2 |
| 2 | 35 | -7827 | 9847 | -11 | -8 | -55 | -8041 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 1.00 | 0.17 | 1.80 | 5.28 | 0.01 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1B | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1C | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1D | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1E | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1F | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1G | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1H | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1I | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1J | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1K | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1L | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1M | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1N | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1O | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 1P | 70 | -4920 | 5468 | 15 | -15 | -8 | -2475 | 3.08 | 3.08 | 3.08 | 6.16 | 2 | 0.21 | 0.09 | 0.94 | 0.00 | 0.00 | 11.2 |
| 2 | 70 | -7827 | 9044 | -11 | -8 | -51 | -4743 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.47 | 0.15 | 1.65 | 4.85 | 0.01 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -4920 | 4955 | 15 | -15 | -14 | -654 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.03 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -7827 | 8241 | -11 | -8 | -47 | -1725 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.14 | 1.50 | 4.42 | 0.01 | 19.1 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -4920 | 4442 | 15 | -15 | -19 | 987 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.04 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -7827 | 7438 | -11 | -8 | -43 | 1013 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.05 | 0.13 | 1.09 | 3.99 | 0.01 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1C | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1G | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1O | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -4920 | 3929 | 15 | -15 | -24 | 2449 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.21 | 0.07 | 0.62 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -7827 | 6635 | -11 | -8 | -39 | 3470 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.27 | 0.11 | 0.97 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1C | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1G | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -4920 | 3415 | 15 | -15 | -30 | 3732 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.41 | 0.06 | 0.54 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -7827 | 5832 | -11 | -8 | -35 | 5647 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.10 | 0.85 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -4920 | 2902 | 15 | -15 | -35 | 4836 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.59 | 0.05 | 0.46 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -7827 | 5029 | -11 | -8 | -32 | 7543 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.92 | 0.09 | 0.74 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -4920 | 2389 | 15 | -15 | -40 | 5760 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.74 | 0.04 | 0.39 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -7827 | 4226 | -11 | -8 | -28 | 9159 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.80 | 0.07 | 0.55 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -4920 | 1876 | 15 | -15 | -46 | 6505 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.03 | 0.31 | 0.00 | 0.00 | 19.1 |
| 2 | 314 | -7827 | 3423 | -11 | -8 | -24 | 10495 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.06 | 0.45 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1I | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1M | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -4920 | 1363 | 15 | -15 | -51 | 7071 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.95 | 0.02 | 0.23 | 0.00 | 0.00 | 19.1 |
| 2 | 349 | -7827 | 2620 | -11 | -8 | -20 | 11550 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.80 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 23**  NI 16166  NF 16167  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.6440  5.3856  16.8421  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -4953 | -3894 | 8 | -26 | -46 | 6995 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.94 | 0.07 | 0.63 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -7915 | -5821 | 31 | -54 | -32 | 11410 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.79 | 0.10 | 0.75 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1B | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1C | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1D | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1E | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1F | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1G | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1H | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1I | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1J | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1K | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1L | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1M | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1N | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1O | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 1P | 33 | -4953 | -4382 | 8 | -26 | -48 | 5619 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.72 | 0.08 | 0.70 | 0.00 | 0.00 | 19.1 |
| 2 | 33 | -7915 | -6585 | 31 | -54 | -42 | 9348 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.12 | 0.91 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 67 | -4953 | -4871 | 8 | -26 | -51 | 4081 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 67 | -7915 | -7349 | 31 | -54 | -53 | 7032 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.83 | 0.13 | 1.12 | 3.94 | 0.05 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1B | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1C | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1D | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1E | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1G | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1H | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1I | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1J | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1K | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1L | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1M | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1N | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1O | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 1P | 100 | -4953 | -5359 | 8 | -26 | -53 | 2381 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.85 | 0.00 | 0.00 | 19.1 |
| 2 | 100 | -7915 | -8113 | 31 | -54 | -63 | 4462 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.42 | 0.14 | 1.23 | 4.35 | 0.05 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1B | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1C | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1D | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1E | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1F | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1G | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1H | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1I | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1J | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1K | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1L | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1M | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1N | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1O | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1P | 133 | -4953 | -5847 | 8 | -26 | -56 | 518 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 2 | 133 | -7915 | -8877 | 31 | -54 | -73 | 1638 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.07 | 0.15 | 1.34 | 4.76 | 0.05 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1B | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1C | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1D | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1E | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1F | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1G | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1H | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1I | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1J | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1K | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1L | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1M | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1N | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1O | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 1P | 166 | -4953 | -6336 | 8 | -26 | -58 | -1508 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.08 | 0.11 | 1.10 | 3.40 | 0.02 | 19.1 |
| 2 | 166 | -7915 | -9641 | 31 | -54 | -84 | -1440 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.06 | 0.17 | 1.81 | 5.17 | 0.05 | 19.1 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1B | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1C | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1D | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1E | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1F | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1G | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1H | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1I | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1J | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1K | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1L | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1M | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1N | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1O | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 1P | 200 | -4953 | -6824 | 8 | -26 | -61 | -3695 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.41 | 0.12 | 1.18 | 3.66 | 0.02 | 19.1 |
| 2 | 200 | -7915 | -10404 | 31 | -54 | -94 | -4772 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.47 | 0.18 | 1.95 | 5.58 | 0.05 | 17.7 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 17.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1B | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1C | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1D | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1E | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1F | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1G | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1H | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1I | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1J | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1K | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1L | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1M | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1N | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1O | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 1P | 233 | -4953 | -7312 | 8 | -26 | -64 | -6045 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.79 | 0.13 | 1.26 | 3.92 | 0.02 | 19.1 |
| 2 | 233 | -7915 | -11168 | 31 | -54 | -105 | -8358 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.71 | 0.19 | 2.09 | 5.99 | 0.05 | 16.5 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1B | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1C | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1D | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1E | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1F | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1G | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1H | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1I | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1J | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1K | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1L | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1M | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1N | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1O | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 1P | 266 | -4953 | -7800 | 8 | -26 | -66 | -8558 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.81 | 0.14 | 1.35 | 4.19 | 0.02 | 11.2 |
| 2 | 266 | -7915 | -11932 | 31 | -54 | -115 | -12198 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.21 | 2.23 | 6.40 | 0.05 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1B | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1C | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1D | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1E | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1F | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1G | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1H | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1I | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1J | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1K | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1L | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1M | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1N | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1O | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 1P | 299 | -4953 | -8289 | 8 | -26 | -69 | -11233 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.83 | 0.14 | 1.43 | 4.45 | 0.02 | 11.2 |
| 2 | 299 | -7915 | -12696 | 31 | -54 | -125 | -16292 | 3.08 | 6.16 | 4.62 | 7.70 | 6 | 0.96 | 0.22 | 2.37 | 6.81 | 0.05 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1B | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1C | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1D | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1E | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1F | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1G | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1H | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1I | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1J | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1K | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1L | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1M | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1N | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1O | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 1P | 333 | -4953 | -8777 | 8 | -26 | -71 | -12753 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.95 | 0.15 | 1.51 | 4.71 | 0.02 | 11.2 |
| 2 | 333 | -7915 | -13460 | 31 | -54 | -136 | -18621 | 3.08 | 6.16 | 4.62 | 9.24 | 6 | 0.94 | 0.23 | 2.51 | 7.22 | 0.05 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 25**  NI 16058  NF 16170  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1B | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1C | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1D | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1E | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1F | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1G | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1H | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1I | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1J | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1K | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1L | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1M | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1N | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1O | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 1P | 0 | -4648 | 6149 | 201 | -21 | 389 | -5931 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.78 | 0.11 | 1.05 | 3.30 | 0.02 | 11.2 |
| 2 | 0 | -7807 | 10230 | 280 | -34 | 557 | -10760 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.97 | 0.18 | 1.89 | 5.49 | 0.03 | 11.2 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1B | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1C | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1D | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1E | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1F | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1G | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1H | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1I | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1J | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1K | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1L | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1M | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1N | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1O | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 1P | 35 | -4648 | 5653 | 201 | -21 | 318 | -3869 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.45 | 0.10 | 0.97 | 0.00 | 0.00 | 11.2 |
| 2 | 35 | -7807 | 9449 | 280 | -34 | 459 | -7324 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.88 | 0.16 | 1.75 | 5.07 | 0.03 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1B | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1C | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1D | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1E | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1F | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1G | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1H | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1I | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1J | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1K | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1L | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1M | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1N | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1O | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 1P | 70 | -4648 | 5157 | 201 | -21 | 248 | -1981 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.15 | 0.09 | 0.89 | 0.00 | 0.00 | 11.2 |
| 2 | 70 | -7807 | 8668 | 280 | -34 | 361 | -4160 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.37 | 0.15 | 1.61 | 4.65 | 0.03 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -4648 | 4660 | 201 | -21 | 178 | -266 | 6.16 | 3.08 | 3.08 | 6.16 | 5 | 0.02 | 0.08 | 0.81 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -7807 | 7887 | 280 | -34 | 263 | -1270 | 6.16 | 3.08 | 3.08 | 6.16 | 6 | 0.05 | 0.14 | 1.47 | 4.23 | 0.03 | 19.1 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -4648 | 4164 | 201 | -21 | 107 | 1275 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.07 | 0.67 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -7807 | 7106 | 280 | -34 | 166 | 1349 | 6.16 | 3.08 | 6.16 | 3.08 | 6 | 0.06 | 0.12 | 1.07 | 3.81 | 0.03 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1C | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1G | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1K | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -4648 | 3668 | 201 | -21 | 37 | 2643 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.25 | 0.06 | 0.59 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -7807 | 6325 | 280 | -34 | 68 | 3694 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.30 | 0.11 | 0.95 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1C | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1G | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -4648 | 3172 | 201 | -21 | -33 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.44 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -7807 | 5544 | 280 | -34 | -30 | 5767 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.63 | 0.10 | 0.84 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -4648 | 2676 | 201 | -21 | -104 | 4859 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.61 | 0.05 | 0.44 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -7807 | 4763 | 280 | -34 | -127 | 7566 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.92 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -4648 | 2179 | 201 | -21 | -174 | 5707 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.74 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -7807 | 3982 | 280 | -34 | -225 | 9094 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.79 | 0.07 | 0.55 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -4648 | 1683 | 201 | -21 | -244 | 6382 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.85 | 0.03 | 0.28 | 0.00 | 0.00 | 19.1 |
| 2 | 314 | -7807 | 3201 | 280 | -34 | -323 | 10348 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.93 | 0.06 | 0.45 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1E | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1M | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -4648 | 1187 | 201 | -21 | -315 | 6883 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 19.1 |
| 2 | 349 | -7807 | 2420 | 280 | -34 | -420 | 11330 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.79 | 0.04 | 0.33 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 24** NI 16170 NF 16171 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.1600 5.3856 16.3581 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -4438 | -4011 | 50 | 76 | -7 | 6852 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.94 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -7457 | -6019 | 89 | 98 | 18 | 11270 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.79 | 0.11 | 0.83 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 33 | -4438 | -4483 | 50 | 76 | -23 | 5439 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 33 | -7457 | -6762 | 89 | 98 | -12 | 9146 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.12 | 0.99 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1B | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1C | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1D | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1E | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1F | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1G | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1H | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1I | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1J | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1K | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1L | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1M | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1N | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1O | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1P | 67 | -4438 | -4956 | 50 | 76 | -40 | 3870 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.45 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 2 | 67 | -7457 | -7505 | 89 | 98 | -42 | 6774 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.14 | 1.20 | 4.03 | 0.09 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1B | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1C | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1D | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1E | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1F | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1G | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1H | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1I | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1K | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1L | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1M | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1N | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1O | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 1P | 100 | -4438 | -5428 | 50 | 76 | -56 | 2143 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.18 | 0.10 | 0.93 | 0.00 | 0.00 | 19.1 |
| 2 | 100 | -7457 | -8248 | 89 | 98 | -71 | 4156 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.39 | 0.15 | 1.31 | 4.43 | 0.09 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1B | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1C | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1D | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1E | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1F | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1G | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1H | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1I | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1J | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1K | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1L | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1M | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1N | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1O | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 1P | 133 | -4438 | -5900 | 50 | 76 | -73 | 260 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.02 | 0.11 | 1.00 | 3.17 | 0.07 | 19.1 |
| 2 | 133 | -7457 | -8991 | 89 | 98 | -101 | 1290 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.05 | 0.16 | 1.42 | 4.82 | 0.09 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1B | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1C | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1D | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1E | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1F | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1G | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1H | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1I | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1J | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1K | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1L | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1M | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1N | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1O | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 1P | 166 | -4438 | -6373 | 50 | 76 | -89 | -1781 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.12 | 0.12 | 1.15 | 3.42 | 0.07 | 19.1 |
| 2 | 166 | -7457 | -9734 | 89 | 98 | -130 | -1822 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.08 | 0.17 | 1.86 | 5.22 | 0.09 | 18.6 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 18.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1B | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1C | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1D | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1E | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1F | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1G | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1H | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1I | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1J | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1K | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1L | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1M | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1N | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1O | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 1P | 200 | -4438 | -6845 | 50 | 76 | -106 | -3979 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.47 | 0.12 | 1.23 | 3.67 | 0.07 | 19.1 |
| 2 | 200 | -7457 | -10478 | 89 | 98 | -160 | -5182 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.55 | 0.19 | 1.99 | 5.62 | 0.09 | 17.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 17.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1B | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1C | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1D | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1E | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1F | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1G | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1H | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1I | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1J | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1K | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1L | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1M | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1N | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1O | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 1P | 233 | -4438 | -7317 | 50 | 76 | -122 | -6334 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.13 | 1.31 | 3.93 | 0.07 | 19.1 |
| 2 | 233 | -7457 | -11221 | 89 | 98 | -189 | -8788 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.77 | 0.20 | 2.13 | 6.02 | 0.09 | 16.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1B | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1C | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1E | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1F | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1G | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1H | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1I | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1J | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1K | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1L | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1M | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1N | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1O | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 1P | 266 | -4438 | -7789 | 50 | 76 | -139 | -8845 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.85 | 0.14 | 1.38 | 4.18 | 0.07 | 11.2 |
| 2 | 266 | -7457 | -11964 | 89 | 98 | -219 | -12642 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.90 | 0.21 | 2.26 | 6.42 | 0.09 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1B | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1C | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1D | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1E | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1F | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1G | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1H | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1I | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1J | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1K | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1L | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1M | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1N | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1O | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 1P | 299 | -4438 | -8262 | 50 | 76 | -155 | -11514 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.86 | 0.15 | 1.46 | 4.43 | 0.07 | 11.2 |
| 2 | 299 | -7457 | -12707 | 89 | 98 | -248 | -16742 | 3.08 | 6.16 | 4.62 | 7.70 | 6 | 1.00 | 0.22 | 2.39 | 6.82 | 0.09 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1B | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1C | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1D | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1E | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1F | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1G | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1H | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1I | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1J | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1K | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1L | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1M | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1N | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1O | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 1P | 333 | -4438 | -8734 | 50 | 76 | -172 | -13030 | 3.08 | 6.16 | 4.62 | 6.16 | 5 | 0.99 | 0.16 | 1.54 | 4.69 | 0.07 | 11.2 |
| 2 | 333 | -7457 | -13450 | 89 | 98 | -278 | -19072 | 3.08 | 6.16 | 4.62 | 9.24 | 5 | 0.97 | 0.24 | 2.53 | 7.22 | 0.09 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 26**  NI 16052  NF 16174  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1B | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1C | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1D | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1E | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1F | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1G | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1H | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1I | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1J | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1K | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1L | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1M | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1N | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1O | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1P | 0 | -1988 | 5491 | 139 | -87 | 239 | -4141 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.59 | 0.10 | 0.96 | 0.00 | 0.00 | 11.2 |
| 2 | 0 | -3290 | 9137 | 172 | -136 | 300 | -7759 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.76 | 0.17 | 1.63 | 4.90 | 0.12 | 11.2 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1B | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1C | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1D | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1F | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1G | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1H | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1I | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1J | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1K | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1L | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1M | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1N | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1O | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1P | 35 | -1988 | 4995 | 139 | -87 | 191 | -2309 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.30 | 0.09 | 0.88 | 0.00 | 0.00 | 11.2 |
| 2 | 35 | -3290 | 8356 | 172 | -136 | 240 | -4703 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.63 | 0.16 | 1.51 | 4.48 | 0.12 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1B | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1C | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1D | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1E | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1F | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1G | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1H | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1I | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1J | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1K | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1L | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1M | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1N | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1O | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1P | 70 | -1988 | 4498 | 139 | -87 | 142 | -651 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.04 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 2 | 70 | -3290 | 7576 | 172 | -136 | 180 | -1919 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.18 | 0.14 | 1.38 | 4.06 | 0.12 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -1988 | 4002 | 139 | -87 | 93 | 834 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.06 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -3290 | 6795 | 172 | -136 | 120 | 591 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.02 | 0.13 | 1.24 | 3.65 | 0.12 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -1988 | 3506 | 139 | -87 | 45 | 2145 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.27 | 0.07 | 0.65 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -3290 | 6015 | 172 | -136 | 60 | 2829 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.33 | 0.12 | 1.11 | 3.23 | 0.12 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1C | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1G | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1K | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1O | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -1988 | 3010 | 139 | -87 | -4 | 3284 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.46 | 0.06 | 0.57 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -3290 | 5234 | 172 | -136 | 0 | 4794 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.65 | 0.10 | 0.99 | 0.00 | 0.00 | 19.1 |

apost= --  aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1C | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1G | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -1988 | 2513 | 139 | -87 | -52 | 4248 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.61 | 0.05 | 0.49 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -3290 | 4453 | 172 | -136 | -60 | 6487 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.92 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -1988 | 2017 | 139 | -87 | -101 | 5040 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.74 | 0.04 | 0.41 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -3290 | 3673 | 172 | -136 | -120 | 7907 | 3.08 | 6.16 | 6.16 | 3.08 | 5 | 0.78 | 0.08 | 0.67 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -1988 | 1521 | 139 | -87 | -149 | 5658 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.84 | 0.03 | 0.34 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -3290 | 2892 | 172 | -136 | -180 | 9054 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.90 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -1988 | 1025 | 139 | -87 | -198 | 6103 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.91 | 0.03 | 0.26 | 0.00 | 0.00 | 19.1 |
| 2 | 314 | -3290 | 2112 | 172 | -136 | -240 | 9928 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 1.00 | 0.05 | 0.45 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1E | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1I | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -1988 | 528 | 139 | -87 | -247 | 6374 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.96 | 0.02 | 0.18 | 0.00 | 0.00 | 19.1 |
| 2 | 349 | -3290 | 1331 | 172 | -136 | -300 | 10530 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.81 | 0.04 | 0.32 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 27**  NI 16174  NF 16175  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -2258 | -3833 | 9 | -27 | -62 | 6283 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.93 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -3744 | -5724 | 21 | -86 | -72 | 10390 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.11 | 0.83 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1B | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1C | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1D | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1E | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1F | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1G | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1H | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1I | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1J | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1K | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1L | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1M | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1N | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1O | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 1P | 33 | -2258 | -4305 | 9 | -27 | -64 | 4930 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.71 | 0.08 | 0.71 | 0.00 | 0.00 | 19.1 |
| 2 | 33 | -3744 | -6467 | 21 | -86 | -79 | 8364 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.12 | 1.00 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1B | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1C | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1D | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1E | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1F | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1G | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1H | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1I | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1J | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1K | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1L | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1M | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1N | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1O | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 1P | 67 | -2258 | -4777 | 9 | -27 | -67 | 3421 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.47 | 0.08 | 0.79 | 0.00 | 0.00 | 19.1 |
| 2 | 67 | -3744 | -7209 | 21 | -86 | -87 | 6090 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.84 | 0.13 | 1.24 | 3.87 | 0.08 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1B | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1C | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1D | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1E | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1F | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1G | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1H | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1I | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1J | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1K | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1L | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1M | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1O | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 1P | 100 | -2258 | -5250 | 9 | -27 | -70 | 1754 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.20 | 0.09 | 0.86 | 0.00 | 0.00 | 19.1 |
| 2 | 100 | -3744 | -7952 | 21 | -86 | -94 | 3570 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.43 | 0.14 | 1.35 | 4.27 | 0.08 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1B | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1C | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1D | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1E | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1F | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1G | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1H | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1I | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1J | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1K | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1L | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1M | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1N | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1O | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 1P | 133 | -2258 | -5722 | 9 | -27 | -73 | -70 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.10 | 0.94 | 0.00 | 0.00 | 19.1 |
| 2 | 133 | -3744 | -8694 | 21 | -86 | -101 | 802 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.03 | 0.16 | 1.47 | 4.66 | 0.08 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1B | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1C | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1D | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1E | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1F | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1G | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1H | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1I | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1J | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1K | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1L | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1M | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1N | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1O | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 1P | 166 | -2258 | -6194 | 9 | -27 | -76 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.24 | 0.11 | 1.01 | 3.32 | 0.02 | 19.1 |
| 2 | 166 | -3744 | -9437 | 21 | -86 | -108 | -2212 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.21 | 0.17 | 1.64 | 5.06 | 0.08 | 19.1 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1B | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1C | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1D | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1E | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1F | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1G | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1H | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1I | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1J | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1K | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1L | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1M | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1N | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1O | 200 | -2258 | -6666 | 9 | -27 | -79 | -4188 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 1P | 200 | -2258 | -6666 | 9 | -27 | -79 | -2051 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.59 | 0.12 | 1.09 | 3.58 | 0.02 | 19.1 |
| 2 | 200 | -3744 | -10180 | 21 | -86 | -115 | -5474 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.74 | 0.18 | 1.77 | 5.46 | 0.08 | 17.9 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 17.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1B | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1C | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1D | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1E | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1F | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1G | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1H | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1I | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1J | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1K | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1L | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1M | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1N | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1O | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 1P | 233 | -2258 | -7138 | 9 | -27 | -82 | -6483 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.97 | 0.13 | 1.16 | 3.83 | 0.02 | 19.1 |
| 2 | 233 | -3744 | -10922 | 21 | -86 | -122 | -8982 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.88 | 0.19 | 1.89 | 5.86 | 0.08 | 16.7 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 16.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1B | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1C | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1D | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1E | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1F | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1G | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1I | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1J | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1K | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1L | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1M | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1N | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1O | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 1P | 266 | -2258 | -7611 | 9 | -27 | -85 | -8935 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.92 | 0.13 | 1.24 | 4.08 | 0.02 | 11.2 |
| 2 | 266 | -3744 | -11665 | 21 | -86 | -129 | -12738 | 3.08 | 6.16 | 3.08 | 6.16 | 5 | 0.98 | 0.21 | 2.01 | 6.26 | 0.08 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1B | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1C | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1D | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1E | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1F | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1G | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1H | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1I | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1J | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1K | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1L | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1M | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1N | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1O | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 1P | 299 | -2258 | -8083 | 9 | -27 | -88 | -11544 | 3.08 | 6.16 | 4.62 | 6.16 | 2 | 0.91 | 0.14 | 1.31 | 4.34 | 0.02 | 11.2 |
| 2 | 299 | -3744 | -12407 | 21 | -86 | -137 | -16740 | 3.08 | 6.16 | 4.62 | 9.24 | 5 | 0.89 | 0.22 | 2.13 | 6.66 | 0.08 | 11.2 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1B | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1C | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1D | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1E | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1F | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1G | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1H | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1I | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1J | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1K | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1L | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1M | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1N | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1O | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 1P | 333 | -2258 | -8555 | 9 | -27 | -90 | -13027 | 3.08 | 6.16 | 4.62 | 7.70 | 2 | 0.83 | 0.15 | 1.39 | 4.59 | 0.02 | 11.2 |
| 2 | 333 | -3744 | -13150 | 21 | -86 | -144 | -19017 | 3.08 | 6.16 | 6.16 | 10.78 | 5 | 0.87 | 0.23 | 2.25 | 7.06 | 0.08 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 28**  NI 16054  NF 16178  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1B | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1C | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1D | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1E | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1F | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1G | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1H | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1I | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1J | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1K | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1L | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1M | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1N | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1O | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 1P | 0 | -1876 | 5606 | -94 | -62 | -227 | -3660 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.52 | 0.10 | 0.95 | 0.00 | 0.00 | 11.2 |
| 2 | 0 | -3181 | 9404 | -202 | -96 | -452 | -7189 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.70 | 0.17 | 1.63 | 5.05 | 0.09 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1B | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1C | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1D | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1E | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1F | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1G | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1H | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1J | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1K | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1L | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1M | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1N | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1O | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 1P | 35 | -1876 | 5110 | -94 | -62 | -194 | -1788 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.22 | 0.09 | 0.87 | 0.00 | 0.00 | 11.2 |
| 2 | 35 | -3181 | 8623 | -202 | -96 | -382 | -4040 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.53 | 0.16 | 1.50 | 4.63 | 0.09 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1B | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1C | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1D | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1E | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1F | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1G | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1H | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1I | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1J | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1K | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1L | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1M | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1N | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1O | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 1P | 70 | -1876 | 4614 | -94 | -62 | -161 | -90 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.01 | 0.09 | 0.79 | 0.00 | 0.00 | 11.2 |
| 2 | 70 | -3181 | 7843 | -202 | -96 | -311 | -1163 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.07 | 0.14 | 1.38 | 4.21 | 0.09 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -1876 | 4117 | -94 | -62 | -129 | 1436 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.16 | 0.08 | 0.72 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -3181 | 7062 | -202 | -96 | -241 | 1440 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.11 | 0.13 | 1.24 | 3.79 | 0.09 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -1876 | 3621 | -94 | -62 | -96 | 2787 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.38 | 0.07 | 0.64 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -3181 | 6282 | -202 | -96 | -170 | 3771 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.49 | 0.12 | 1.11 | 3.37 | 0.09 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1C | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1G | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1K | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1O | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -1876 | 3125 | -94 | -62 | -63 | 3966 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.57 | 0.06 | 0.56 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -3181 | 5501 | -202 | -96 | -100 | 5829 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.82 | 0.10 | 0.99 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1G | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -1876 | 2629 | -94 | -62 | -30 | 4971 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.73 | 0.05 | 0.48 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -3181 | 4720 | -202 | -96 | -29 | 7615 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.75 | 0.09 | 0.77 | 0.00 | 0.00 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -1876 | 2132 | -94 | -62 | 2 | 5802 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.87 | 0.04 | 0.40 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -3181 | 3940 | -202 | -96 | 42 | 9128 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.91 | 0.08 | 0.66 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -1876 | 1636 | -94 | -62 | 35 | 6461 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.03 | 0.33 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -3181 | 3159 | -202 | -96 | 112 | 10368 | 6.16 | 3.08 | 6.16 | 3.08 | 5 | 0.79 | 0.06 | 0.51 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -1876 | 1140 | -94 | -62 | 68 | 6945 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.71 | 0.03 | 0.23 | 0.00 | 0.00 | 19.1 |
| 2 | 314 | -3181 | 2379 | -202 | -96 | 183 | 11335 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.87 | 0.05 | 0.41 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1E | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1I | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1M | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -1876 | 644 | -94 | -62 | 100 | 7257 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.74 | 0.02 | 0.16 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 349 | -3181 | 1598 | -202 | -96 | 253 | 12030 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.93 | 0.04 | 0.31 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 29** NI 16178 NF 16179 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.1600 5.3856 16.3581 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -1995 | -4425 | -219 | -310 | -410 | 7235 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.74 | 0.10 | 0.98 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -3354 | -6643 | -350 | -507 | -639 | 11990 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.92 | 0.16 | 1.41 | 3.56 | 0.45 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1B | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1C | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1D | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1E | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1F | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1G | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1H | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1I | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1J | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1K | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1L | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1M | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1N | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1O | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 1P | 33 | -1995 | -4897 | -219 | -310 | -337 | 5685 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.85 | 0.11 | 1.11 | 2.63 | 0.27 | 19.1 |
| 2 | 33 | -3354 | -7386 | -350 | -507 | -522 | 9658 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.97 | 0.17 | 1.60 | 3.96 | 0.45 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1B | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1C | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1D | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1E | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1F | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1G | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1H | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1I | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1J | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1K | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1L | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1M | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1N | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1O | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 1P | 67 | -1995 | -5370 | -219 | -310 | -264 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.57 | 0.12 | 1.19 | 2.88 | 0.27 | 19.1 |
| 2 | 67 | -3354 | -8128 | -350 | -507 | -406 | 7078 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.69 | 0.19 | 1.70 | 4.36 | 0.45 | 19.1 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1B | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1C | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1D | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1E | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1F | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1G | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1H | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1I | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1J | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1K | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1L | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1M | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1N | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1O | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 1P | 100 | -1995 | -5842 | -219 | -310 | -191 | 2114 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.26 | 0.13 | 1.26 | 3.13 | 0.27 | 19.1 |
| 2 | 100 | -3354 | -8871 | -350 | -507 | -289 | 4252 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.56 | 0.20 | 1.98 | 4.76 | 0.45 | 17.8 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 17.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1B | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1C | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1D | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1E | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1F | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1G | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1H | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1I | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1J | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1K | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1L | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1M | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1N | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1O | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 1P | 133 | -1995 | -6314 | -219 | -310 | -118 | 93 | 3.08 | 6.16 | 6.16 | 3.08 | 6 | 0.01 | 0.14 | 1.34 | 3.39 | 0.27 | 19.1 |
| 2 | 133 | -3354 | -9614 | -350 | -507 | -173 | 1178 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.07 | 0.21 | 2.09 | 5.16 | 0.45 | 16.6 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 16.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1B | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1C | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1D | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1E | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1F | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1G | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1H | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1I | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1J | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1K | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1L | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1M | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1N | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1O | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 1P | 166 | -1995 | -6787 | -219 | -310 | -45 | -2085 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.26 | 0.15 | 1.41 | 3.64 | 0.27 | 19.1 |
| 2 | 166 | -3354 | -10357 | -350 | -507 | -56 | -2142 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.22 | 0.22 | 2.24 | 5.56 | 0.45 | 15.6 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 15.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1B | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1C | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1D | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1E | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1F | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1G | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1H | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1I | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1J | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1K | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1L | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1M | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1N | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1O | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 1P | 200 | -1995 | -7259 | -219 | -310 | 28 | -4420 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.64 | 0.15 | 1.49 | 3.89 | 0.27 | 19.1 |
| 2 | 200 | -3354 | -11099 | -350 | -507 | 60 | -5710 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.80 | 0.24 | 2.37 | 5.95 | 0.45 | 14.7 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 14.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1B | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1C | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1D | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1E | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1F | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1G | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1H | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1I | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1J | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1K | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1L | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1M | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1N | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1O | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 1P | 233 | -1995 | -7731 | -219 | -310 | 101 | -6912 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.70 | 0.16 | 1.56 | 4.15 | 0.27 | 19.1 |
| 2 | 233 | -3354 | -11842 | -350 | -507 | 177 | -9524 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.95 | 0.25 | 2.49 | 6.35 | 0.45 | 13.9 |

apost= 3.08 aant= --  ainf= --  asup= 3.08 staffe= 2 d  8 / 13.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1B | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1C | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1D | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1E | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1F | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1G | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1H | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1I | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1J | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1K | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1M | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1N | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1O | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 1P | 266 | -1995 | -8203 | -219 | -310 | 174 | -9561 | 6.16 | 3.08 | 3.08 | 6.16 | 4 | 0.99 | 0.17 | 1.64 | 4.40 | 0.27 | 11.2 |
| 2 | 266 | -3354 | -12585 | -350 | -507 | 293 | -13586 | 6.16 | 3.08 | 4.62 | 7.70 | 4 | 0.85 | 0.26 | 2.61 | 6.75 | 0.45 | 11.2 |

apost= 3.08 aant= -- ainf= 1.54 asup= 4.62 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1B | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1C | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1D | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1E | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1F | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1G | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1H | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1I | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1J | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1K | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1L | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1M | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1N | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1O | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 1P | 299 | -1995 | -8676 | -219 | -310 | 247 | -12367 | 6.16 | 3.08 | 4.62 | 6.16 | 3 | 0.98 | 0.18 | 1.71 | 4.65 | 0.27 | 11.2 |
| 2 | 299 | -3354 | -13327 | -350 | -507 | 410 | -17894 | 6.16 | 3.08 | 4.62 | 9.24 | 3 | 0.95 | 0.28 | 2.73 | 7.15 | 0.45 | 11.2 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1B | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1C | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1D | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1E | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1F | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1G | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1H | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1I | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1J | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1K | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1L | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1M | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1N | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1O | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 1P | 333 | -1995 | -9148 | -219 | -310 | 320 | -13958 | 6.16 | 3.08 | 4.62 | 7.70 | 3 | 0.89 | 0.19 | 1.79 | 4.91 | 0.27 | 11.2 |
| 2 | 333 | -3354 | -14070 | -350 | -507 | 526 | -20339 | 6.16 | 3.08 | 6.16 | 10.78 | 3 | 0.94 | 0.29 | 2.85 | 7.55 | 0.45 | 11.2 |

apost= 3.08 aant= -- ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 30** NI 16053 NF 16182 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.1600 5.3856 16.3581 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1B | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1C | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1D | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1E | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1F | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1G | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1H | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1I | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1J | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1K | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1L | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1M | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1N | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1O | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 1P | 0 | -489 | 6052 | -130 | -31 | -328 | -3391 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.53 | 0.11 | 0.96 | 0.00 | 0.00 | 11.2 |
| 2 | 0 | -819 | 9891 | -223 | -93 | -544 | -6501 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.69 | 0.18 | 1.62 | 5.31 | 0.08 | 11.2 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1B | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1C | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1D | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1E | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1F | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1G | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1H | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1I | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1J | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1K | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1L | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1N | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1O | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 1P | 35 | -489 | 5556 | -130 | -31 | -283 | -1363 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.20 | 0.10 | 0.88 | 0.00 | 0.00 | 11.2 |
| 2 | 35 | -819 | 9110 | -223 | -93 | -466 | -3182 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.49 | 0.17 | 1.50 | 4.89 | 0.08 | 11.2 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1B | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1C | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1D | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1E | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1F | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1G | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1H | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1I | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1J | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1K | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1L | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1M | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1N | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1O | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 1P | 70 | -489 | 5060 | -130 | -31 | -238 | 491 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.06 | 0.09 | 0.81 | 0.00 | 0.00 | 11.2 |
| 2 | 70 | -819 | 8330 | -223 | -93 | -388 | -135 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.07 | 0.15 | 1.38 | 4.47 | 0.08 | 11.2 |

apost= --  aant= 3.08 ainf= 3.08 asup= 3.08 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1B | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1C | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1D | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1E | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1F | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1G | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1H | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1I | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1J | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1K | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1L | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1M | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1N | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1O | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 1P | 105 | -489 | 4563 | -130 | -31 | -192 | 2172 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.08 | 0.73 | 0.00 | 0.00 | 19.1 |
| 2 | 105 | -819 | 7549 | -223 | -93 | -310 | 2639 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.40 | 0.14 | 1.26 | 4.05 | 0.08 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1B | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1C | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1D | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1E | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1F | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1G | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1H | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1I | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1J | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1K | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1L | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1M | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1N | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1O | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 1P | 140 | -489 | 4067 | -130 | -31 | -147 | 3680 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.58 | 0.07 | 0.66 | 0.00 | 0.00 | 19.1 |
| 2 | 140 | -819 | 6769 | -223 | -93 | -232 | 5140 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.80 | 0.13 | 1.14 | 3.63 | 0.08 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1B | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1C | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1D | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1E | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1F | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1G | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1H | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1I | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1J | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1K | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1L | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1M | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1N | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1O | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 1P | 175 | -489 | 3571 | -130 | -31 | -102 | 5014 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.80 | 0.06 | 0.58 | 0.00 | 0.00 | 19.1 |
| 2 | 175 | -819 | 5988 | -223 | -93 | -154 | 7368 | 3.08 | 6.16 | 6.16 | 3.08 | 3 | 0.78 | 0.11 | 0.99 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1B | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1C | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1D | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1E | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1F | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1H | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1I | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1J | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1K | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1L | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1M | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1N | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1O | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 1P | 210 | -489 | 3075 | -130 | -31 | -56 | 6175 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.06 | 0.50 | 0.00 | 0.00 | 19.1 |
| 2 | 210 | -819 | 5207 | -223 | -93 | -76 | 9324 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 1.00 | 0.10 | 0.87 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1B | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1C | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1D | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1E | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1F | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1G | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1H | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1I | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1J | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1K | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1L | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1M | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1N | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1O | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 1P | 245 | -489 | 2579 | -130 | -31 | -11 | 7163 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.77 | 0.05 | 0.42 | 0.00 | 0.00 | 19.1 |
| 2 | 245 | -819 | 4427 | -223 | -93 | 1 | 11007 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.89 | 0.09 | 0.70 | 0.00 | 0.00 | 19.1 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1B | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1C | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1D | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1E | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1F | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1G | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1H | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1I | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1J | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1K | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1L | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1M | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1N | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1O | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 1P | 279 | -489 | 2082 | -130 | -31 | 34 | 7977 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.86 | 0.04 | 0.35 | 0.00 | 0.00 | 19.1 |
| 2 | 279 | -819 | 3646 | -223 | -93 | 79 | 12418 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.81 | 0.07 | 0.56 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1B | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1C | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1D | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1E | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1F | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1G | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1H | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1I | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1J | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1K | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1L | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1M | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1N | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1O | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 1P | 314 | -489 | 1586 | -130 | -31 | 80 | 8618 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.93 | 0.03 | 0.27 | 0.00 | 0.00 | 19.1 |
| 2 | 314 | -819 | 2866 | -223 | -93 | 157 | 13555 | 6.16 | 3.08 | 7.70 | 3.08 | 3 | 0.89 | 0.06 | 0.46 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1B | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1C | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1D | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1E | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1F | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1G | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1H | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1I | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1J | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1K | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1L | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1M | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1N | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1O | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 1P | 349 | -489 | 1090 | -130 | -31 | 125 | 9085 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.98 | 0.02 | 0.20 | 0.00 | 0.00 | 19.1 |
| 2 | 349 | -819 | 2085 | -223 | -93 | 235 | 14420 | 6.16 | 3.08 | 7.70 | 3.08 | 2 | 0.95 | 0.04 | 0.36 | 0.00 | 0.00 | 19.1 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  staffe= 2 d  8 / 19.1  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 31** NI 16182 NF 16183 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.1600 5.3856 16.3581 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1B | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1C | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1D | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1E | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1F | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1G | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1H | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1I | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1J | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1K | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1L | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1M | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1N | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1O | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 1P | 0 | -412 | -4722 | -408 | -126 | -567 | 9608 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.78 | 0.09 | 0.78 | 0.00 | 0.00 | 19.1 |
| 2 | 0 | -670 | -6989 | -621 | -55 | -858 | 15140 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 1.00 | 0.13 | 0.94 | 0.00 | 0.00 | 19.1 |
| apost= -- aant= 3.08 ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1B | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1C | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1D | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1E | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1F | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1G | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1H | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1I | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1J | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1K | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1L | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1M | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1N | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1O | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 1P | 33 | -412 | -5194 | -408 | -126 | -431 | 7960 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.86 | 0.10 | 0.92 | 0.00 | 0.00 | 19.1 |
| 2 | 33 | -670 | -7732 | -621 | -55 | -652 | 12694 | 3.08 | 6.16 | 7.70 | 3.08 | 2 | 0.83 | 0.14 | 1.03 | 4.15 | 0.05 | 19.1 |
| apost= -- aant= 3.08 ainf= 4.62 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1B | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1C | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1D | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1E | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1F | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1G | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1H | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1I | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1J | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1K | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1L | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1M | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1N | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1O | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 1P | 67 | -412 | -5667 | -408 | -126 | -295 | 6155 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.99 | 0.11 | 1.00 | 3.04 | 0.11 | 19.1 |
| 2 | 67 | -670 | -8475 | -621 | -55 | -446 | 10000 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.81 | 0.15 | 1.21 | 4.55 | 0.05 | 19.1 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1B | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1C | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1D | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1E | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1F | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1G | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1H | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1I | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1J | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1K | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1L | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1M | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1N | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1O | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 1P | 100 | -412 | -6139 | -408 | -126 | -160 | 4192 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.67 | 0.12 | 1.08 | 3.29 | 0.11 | 19.1 |
| 2 | 100 | -670 | -9218 | -621 | -55 | -239 | 7060 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.75 | 0.16 | 1.43 | 4.95 | 0.05 | 19.1 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 19.1 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1C | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1D | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1E | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1F | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1G | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1H | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1I | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1J | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1K | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1L | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1M | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1N | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1O | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 1P | 133 | -412 | -6611 | -408 | -126 | -24 | 2073 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.32 | 0.13 | 1.15 | 3.55 | 0.11 | 19.1 |
| 2 | 133 | -670 | -9961 | -621 | -55 | -33 | 3872 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.60 | 0.18 | 1.59 | 5.34 | 0.05 | 18.5 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 18.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1B | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1C | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1D | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1E | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1F | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1G | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1H | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1I | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1J | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1K | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1L | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1M | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1N | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1O | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 1P | 166 | -412 | -7084 | -408 | -126 | 112 | -203 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.02 | 0.13 | 1.22 | 3.80 | 0.11 | 19.1 |
| 2 | 166 | -670 | -10705 | -621 | -55 | 174 | 438 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.04 | 0.19 | 1.70 | 5.74 | 0.05 | 17.2 |

apost= 3.08 aant= -- ainf= 3.08 asup= 3.08 staffe= 2 d 8 / 17.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1B | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1C | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1D | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1E | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1F | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1G | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1H | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1I | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1J | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1K | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1L | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1M | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1N | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1O | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 1P | 200 | -412 | -7556 | -408 | -126 | 247 | -2636 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.41 | 0.14 | 1.29 | 4.05 | 0.11 | 19.1 |
| 2 | 200 | -670 | -11448 | -621 | -55 | 380 | -3244 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.50 | 0.20 | 1.82 | 6.14 | 0.05 | 16.1 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1B | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1C | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1D | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1E | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1F | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1G | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1H | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1I | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1J | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1K | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1L | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1M | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1N | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1O | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 1P | 233 | -412 | -8028 | -408 | -126 | 383 | -5227 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.83 | 0.15 | 1.36 | 4.31 | 0.11 | 19.1 |
| 2 | 233 | -670 | -12191 | -621 | -55 | 587 | -7172 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.77 | 0.22 | 1.93 | 6.54 | 0.05 | 15.1 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 15.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1B | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1C | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1D | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1E | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1F | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1G | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1H | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1I | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1J | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1K | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1L | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1M | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1N | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 1O | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 266 | -412 | -8500 | -408 | -126 | 519 | -7974 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.86 | 0.16 | 1.44 | 4.56 | 0.11 | 11.2 |
| 2 | 266 | -670 | -12934 | -621 | -55 | 793 | -11348 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.92 | 0.23 | 2.04 | 6.94 | 0.05 | 11.2 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1B | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1C | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1D | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1E | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1F | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1G | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1H | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1I | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1J | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1K | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1L | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1M | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1N | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1O | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 1P | 299 | -412 | -8973 | -408 | -126 | 655 | -10879 | 6.16 | 3.08 | 4.62 | 6.16 | 2 | 0.89 | 0.17 | 1.51 | 4.81 | 0.11 | 11.2 |
| 2 | 299 | -670 | -13677 | -621 | -55 | 1000 | -15770 | 6.16 | 3.08 | 4.62 | 9.24 | 2 | 0.87 | 0.24 | 2.16 | 7.34 | 0.05 | 11.2 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1B | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1C | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1D | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1E | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1F | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1G | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1H | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1I | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1J | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1K | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1L | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1M | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1N | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1O | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 1P | 333 | -412 | -9445 | -408 | -126 | 790 | -12523 | 6.16 | 3.08 | 4.62 | 7.70 | 2 | 0.82 | 0.18 | 1.58 | 5.07 | 0.11 | 11.2 |
| 2 | 333 | -670 | -14420 | -621 | -55 | 1206 | -18277 | 6.16 | 3.08 | 6.16 | 10.78 | 2 | 0.87 | 0.25 | 2.27 | 7.74 | 0.05 | 11.2 |

apost= 3.08 aant= -- ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 32** NI 16179 NF 16180 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 3.1500 2.7540 12.9040 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1B | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1C | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1D | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1E | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1F | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1G | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1H | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1I | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1J | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1K | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1L | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1M | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1N | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1O | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 1P | 0 | -3332 | 9944 | -559 | -1791 | -1247 | -18078 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.21 | 2.24 | 4.14 | 1.03 | 11.2 |
| 2 | 0 | -5493 | 14830 | -891 | -2894 | -1998 | -26135 | 4.62 | 9.24 | 6.16 | 10.78 | 2 | 0.90 | 0.32 | 3.54 | 6.18 | 1.67 | 10.6 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 10.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1B | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1C | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1D | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1E | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1F | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1G | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1H | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1I | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1J | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1K | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1L | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1M | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1N | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1O | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |
| 1P | 34 | -3332 | 9545 | -559 | -1791 | -1058 | -16272 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.96 | 0.20 | 2.19 | 3.97 | 1.03 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 34 | -5493 | 14244 | -891 | -2894 | -1696 | -23439 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.93 | 0.31 | 3.47 | 5.93 | 1.67 | 10.8 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1B | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1C | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1D | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1E | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1F | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1G | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1H | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1I | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1J | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1K | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1L | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1M | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1N | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1O | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 1P | 68 | -3332 | 9145 | -559 | -1791 | -869 | -13109 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.77 | 0.20 | 2.15 | 3.81 | 1.03 | 11.2 |
| 2 | 68 | -5493 | 13658 | -891 | -2894 | -1395 | -18716 | 4.62 | 9.24 | 4.62 | 9.24 | 2 | 0.87 | 0.31 | 3.40 | 5.69 | 1.67 | 11.1 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1B | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1C | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1D | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1E | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1F | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1G | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1H | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1I | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1J | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1K | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1L | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1M | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1N | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1O | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 1P | 102 | -3332 | 8746 | -559 | -1791 | -680 | -10082 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.76 | 0.19 | 2.10 | 3.64 | 1.03 | 16.8 |
| 2 | 102 | -5493 | 13072 | -891 | -2894 | -1093 | -14192 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.79 | 0.30 | 3.33 | 5.44 | 1.67 | 11.4 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1B | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1C | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1D | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1E | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1F | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1G | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1H | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1I | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1J | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1K | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1L | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1M | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1N | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1O | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 1P | 135 | -3332 | 8346 | -559 | -1791 | -490 | -7189 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.77 | 0.19 | 2.05 | 3.48 | 1.03 | 16.8 |
| 2 | 135 | -5493 | 12486 | -891 | -2894 | -792 | -9866 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.68 | 0.29 | 3.26 | 5.20 | 1.67 | 11.8 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1B | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1C | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1D | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1E | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1F | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1G | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1H | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1I | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1J | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1K | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1L | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1M | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1N | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1O | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 1P | 169 | -3332 | 7947 | -559 | -1791 | -301 | -4432 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.42 | 0.18 | 2.01 | 3.31 | 1.03 | 16.8 |
| 2 | 169 | -5493 | 11900 | -891 | -2894 | -490 | -5739 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.50 | 0.29 | 3.19 | 4.96 | 1.67 | 12.1 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 12.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1B | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1C | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1D | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1E | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1F | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1G | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1H | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1I | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1J | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1L | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1M | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1N | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1O | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 1P | 203 | -3332 | 7547 | -559 | -1791 | -112 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.10 | 0.18 | 1.96 | 3.14 | 1.03 | 16.8 |
| 2 | 203 | -5493 | 11315 | -891 | -2894 | -188 | -1810 | 4.62 | 9.24 | 4.62 | 9.24 | 6 | 0.05 | 0.28 | 3.12 | 4.71 | 1.67 | 12.5 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 12.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1B | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1C | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1D | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1E | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1F | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1G | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1H | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1I | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1J | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1K | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1L | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1M | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1N | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1O | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 1P | 237 | -3332 | 7148 | -559 | -1791 | 77 | 677 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.02 | 0.17 | 1.91 | 2.98 | 1.03 | 16.8 |
| 2 | 237 | -5493 | 10729 | -891 | -2894 | 113 | 1920 | 9.24 | 4.62 | 9.24 | 4.62 | 6 | 0.06 | 0.27 | 3.04 | 4.47 | 1.67 | 12.9 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 12.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1B | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1C | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1D | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1E | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1F | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1G | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1H | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1I | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1J | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1K | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1L | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1M | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1N | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1O | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 1P | 271 | -3332 | 6748 | -559 | -1791 | 266 | 3028 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.25 | 0.17 | 1.87 | 2.81 | 1.03 | 16.8 |
| 2 | 271 | -5493 | 10143 | -891 | -2894 | 415 | 5452 | 9.24 | 4.62 | 9.24 | 4.62 | 4 | 0.47 | 0.27 | 2.97 | 4.22 | 1.67 | 13.3 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 13.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1B | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1C | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1D | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1E | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1F | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1G | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1H | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1I | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1J | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1K | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1L | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1M | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1N | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1O | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 1P | 305 | -3332 | 6349 | -559 | -1791 | 455 | 5245 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.52 | 0.17 | 1.82 | 2.64 | 1.03 | 16.8 |
| 2 | 305 | -5493 | 9557 | -891 | -2894 | 716 | 8785 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.88 | 0.26 | 2.90 | 3.98 | 1.67 | 13.7 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 13.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1B | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1C | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1D | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1E | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1F | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1G | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1H | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1I | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1J | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1K | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1L | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1M | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1N | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1O | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 1P | 338 | -3332 | 5949 | -559 | -1791 | 644 | 7326 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.78 | 0.16 | 1.78 | 2.48 | 1.03 | 16.8 |
| 2 | 338 | -5493 | 8971 | -891 | -2894 | 1018 | 11920 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.86 | 0.25 | 2.75 | 3.74 | 1.67 | 14.2 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 14.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 33** NI 16180 NF 16181 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 3.1500 2.7540 12.9040 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -3004 | 3213 | -139 | -92 | 44 | 7430 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.81 | 0.04 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -4957 | 4553 | -264 | -159 | 38 | 12100 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.89 | 0.06 | 0.61 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -3004 | 2828 | -139 | -92 | 90 | 8415 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.93 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -4957 | 3988 | -264 | -159 | 124 | 13494 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.76 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | -3004 | 2443 | -139 | -92 | 135 | 9275 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.70 | 0.03 | 0.34 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | -4957 | 3422 | -264 | -159 | 210 | 14704 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.83 | 0.05 | 0.45 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | -3004 | 2058 | -139 | -92 | 181 | 10009 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.03 | 0.29 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | -4957 | 2857 | -264 | -159 | 296 | 15729 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1B | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1C | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1D | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1E | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1G | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1H | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1I | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1J | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1K | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1L | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1M | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1N | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1O | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 1P | 131 | -3004 | 1673 | -139 | -92 | 226 | 10618 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.02 | 0.25 | 0.00 | 0.00 | 16.8 |
| 2 | 131 | -4957 | 2292 | -264 | -159 | 382 | 16569 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.03 | 0.33 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | -3004 | 1288 | -139 | -92 | 271 | 11100 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | -4957 | 1727 | -264 | -159 | 468 | 17225 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -3004 | 903 | -139 | -92 | 317 | 11458 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -4957 | 1161 | -264 | -159 | 554 | 17697 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | -3004 | 518 | -139 | -92 | 362 | 11689 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.90 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | -4957 | 596 | -264 | -159 | 640 | 17985 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.84 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1B | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1C | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1D | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1E | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1F | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1G | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1H | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1I | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1J | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1K | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1L | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1M | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1N | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1O | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 1P | 261 | -3004 | 133 | -139 | -92 | 408 | 11795 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.07 | 0.00 | 0.00 | 16.8 |
| 2 | 261 | -4957 | 31 | -264 | -159 | 726 | 18088 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.84 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -3004 | -252 | -139 | -92 | 453 | 11775 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.91 | 0.01 | 0.08 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -4957 | -535 | -264 | -159 | 812 | 18006 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.84 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | -3004 | -637 | -139 | -92 | 498 | 11630 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.90 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | -4957 | -1100 | -264 | -159 | 899 | 17740 | 9.24 | 3.08 | 9.24 | 3.08 | 3 | 0.83 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 34** NI 16181 NF 16270 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 3.1500 2.7540 12.9040 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -2858 | -2818 | 52 | 583 | 230 | 11350 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.06 | 0.68 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -4727 | -4628 | 139 | 939 | 482 | 17270 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.81 | 0.10 | 1.01 | 1.93 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1B | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1C | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1D | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1E | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1F | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1G | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1H | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1I | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1J | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1K | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1L | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1M | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1N | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1O | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1P | 34 | -2858 | -3221 | 52 | 583 | 212 | 10317 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.79 | 0.07 | 0.72 | 0.00 | 0.00 | 16.8 |
| 2 | 34 | -4727 | -5220 | 139 | 939 | 434 | 15587 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.90 | 0.11 | 1.11 | 2.17 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1B | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1C | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1D | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1E | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1F | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1G | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1H | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1I | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1J | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1K | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1L | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1M | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1N | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1O | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1P | 68 | -2858 | -3625 | 52 | 583 | 194 | 9147 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 2 | 68 | -4727 | -5812 | 139 | 939 | 387 | 13701 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.78 | 0.12 | 1.17 | 2.42 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1B | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1C | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1D | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1E | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1F | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1G | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1H | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1I | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1J | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1K | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1L | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1M | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1N | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1O | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1P | 103 | -2858 | -4028 | 52 | 583 | 177 | 7838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 2 | 103 | -4727 | -6405 | 139 | 939 | 339 | 11612 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.85 | 0.12 | 1.29 | 2.67 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1B | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1C | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1D | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1E | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1F | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1G | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1H | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1I | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1J | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1K | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1L | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1M | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1N | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1O | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 1P | 137 | -2858 | -4432 | 52 | 583 | 159 | 6392 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.69 | 0.08 | 0.86 | 0.00 | 0.00 | 16.8 |
| 2 | 137 | -4727 | -6997 | 139 | 939 | 292 | 9322 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.98 | 0.13 | 1.40 | 2.91 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1B | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1C | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1D | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1E | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1F | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1G | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1H | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1I | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1J | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1K | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1L | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1M | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1N | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1O | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1P | 171 | -2858 | -4835 | 52 | 583 | 141 | 4808 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.49 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 2 | 171 | -4727 | -7589 | 139 | 939 | 244 | 6828 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.67 | 0.14 | 1.47 | 3.16 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1M | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 205 | -2858 | -5238 | 52 | 583 | 124 | 3085 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.27 | 0.09 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 205 | -4727 | -8181 | 139 | 939 | 197 | 4132 | 9.24 | 4.62 | 9.24 | 3.08 | 5 | 0.33 | 0.14 | 1.54 | 3.41 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1B | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1C | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1D | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1E | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1F | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1G | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1H | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1I | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1J | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1K | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1L | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1M | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1N | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1O | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 1P | 239 | -2858 | -5642 | 52 | 583 | 106 | 1225 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.05 | 0.10 | 1.00 | 2.35 | 0.34 | 16.8 |
| 2 | 239 | -4727 | -8773 | 139 | 939 | 149 | 1234 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.03 | 0.15 | 1.61 | 3.65 | 0.54 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1B | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1C | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1D | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1E | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1F | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1G | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1H | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1I | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1J | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1K | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1L | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1M | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1N | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1O | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 1P | 273 | -2858 | -6045 | 52 | 583 | 88 | -773 | 9.24 | 3.08 | 4.62 | 9.24 | 3 | 0.02 | 0.10 | 1.05 | 2.52 | 0.34 | 11.2 |
| 2 | 273 | -4727 | -9366 | 139 | 939 | 102 | -1867 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.07 | 0.16 | 1.68 | 3.90 | 0.54 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1B | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1C | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1D | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1E | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1F | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1G | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1H | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1I | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1J | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1K | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1L | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1M | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1N | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1O | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 1P | 308 | -2858 | -6449 | 52 | 583 | 70 | -2909 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.25 | 0.11 | 1.10 | 2.69 | 0.34 | 11.2 |
| 2 | 308 | -4727 | -9958 | 139 | 939 | 54 | -5170 | 9.24 | 4.62 | 4.62 | 9.24 | 2 | 0.46 | 0.16 | 1.75 | 4.15 | 0.54 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1B | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1C | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1D | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1E | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1F | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1G | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1H | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1I | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1J | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1K | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1L | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1M | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1N | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1O | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 1P | 342 | -2858 | -6852 | 52 | 583 | 53 | -5183 | 9.24 | 3.08 | 4.62 | 9.24 | 2 | 0.54 | 0.11 | 1.14 | 2.85 | 0.34 | 11.2 |
| 2 | 342 | -4727 | -10550 | 139 | 939 | 7 | -8676 | 4.62 | 4.62 | 4.62 | 9.24 | 2 | 0.90 | 0.17 | 1.82 | 4.39 | 0.54 | 11.2 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 35** NI 16175 NF 16176 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

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| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1B | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1C | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1D | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1E | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1F | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1G | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1H | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1I | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1J | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1K | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1L | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1M | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1N | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1O | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 1P | 0 | -4863 | 13680 | -388 | -930 | -788 | -22128 | 4.62 | 9.24 | 6.16 | 9.24 | 3 | 0.88 | 0.21 | 2.19 | 5.70 | 0.54 | 11.2 |
| 2 | 0 | -7895 | 21110 | -612 | -1503 | -1246 | -33003 | 4.62 | 9.24 | 6.16 | 12.32 | 3 | 0.99 | 0.32 | 3.56 | 8.79 | 0.87 | 9.6 |
| apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1B | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1C | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1D | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1E | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1F | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1G | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1H | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1I | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1J | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1K | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1L | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1M | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1N | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1O | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 1P | 34 | -4863 | 13125 | -388 | -930 | -657 | -19644 | 4.62 | 9.24 | 4.62 | 9.24 | 3 | 0.92 | 0.20 | 2.13 | 5.47 | 0.54 | 11.2 |
| 2 | 34 | -7895 | 20257 | -612 | -1503 | -1039 | -29169 | 4.62 | 9.24 | 6.16 | 10.78 | 3 | 0.99 | 0.31 | 3.46 | 8.44 | 0.87 | 9.9 |
| apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 9.9 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1B | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1C | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1D | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1E | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1F | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1G | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1H | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1I | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1J | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1K | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1L | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1M | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1N | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1O | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 1P | 68 | -4863 | 12570 | -388 | -930 | -525 | -15296 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.87 | 0.19 | 2.06 | 5.23 | 0.54 | 11.2 |
| 2 | 68 | -7895 | 19404 | -612 | -1503 | -831 | -22456 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.86 | 0.30 | 3.35 | 8.08 | 0.87 | 10.2 |
| apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1B | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1C | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1D | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1E | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1F | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1G | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1H | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1I | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1J | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1K | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1L | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1M | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1N | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1O | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 1P | 102 | -4863 | 12015 | -388 | -930 | -394 | -11135 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.81 | 0.19 | 1.99 | 5.00 | 0.54 | 16.5 |
| 2 | 102 | -7895 | 18551 | -612 | -1503 | -624 | -16032 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.86 | 0.29 | 3.24 | 7.72 | 0.87 | 10.6 |
| apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 10.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1B | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1C | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1D | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1E | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1F | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1G | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1H | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1I | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1K | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1L | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1M | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1N | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1O | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 1P | 135 | -4863 | 11460 | -388 | -930 | -263 | -7163 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.70 | 0.18 | 1.93 | 4.77 | 0.54 | 16.8 |
| 2 | 135 | -7895 | 17698 | -612 | -1503 | -417 | -9896 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.93 | 0.28 | 3.13 | 7.37 | 0.87 | 11.0 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 11.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1B | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1C | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1D | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1E | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1F | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1G | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1H | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1I | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1J | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1K | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1L | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1M | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1N | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1O | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 1P | 169 | -4863 | 10905 | -388 | -930 | -132 | -3378 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.23 | 0.17 | 1.86 | 4.54 | 0.54 | 16.8 |
| 2 | 169 | -7895 | 16845 | -612 | -1503 | -210 | -4048 | 4.62 | 9.24 | 3.08 | 9.24 | 6 | 0.21 | 0.27 | 3.03 | 7.01 | 0.87 | 11.5 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 11.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1B | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1C | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1D | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1E | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1F | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1G | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1H | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1I | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1J | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1K | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1L | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1M | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1N | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1O | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 1P | 203 | -4863 | 10350 | -388 | -930 | -0 | 219 | 4.62 | 4.62 | 9.24 | 3.08 | 6 | 0.01 | 0.17 | 1.80 | 4.31 | 0.54 | 16.8 |
| 2 | 203 | -7895 | 15992 | -612 | -1503 | -2 | 1510 | 4.62 | 4.62 | 9.24 | 3.08 | 4 | 0.04 | 0.26 | 2.84 | 6.66 | 0.87 | 12.0 |

apost= 1.54 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 12.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1B | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1C | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1D | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1E | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1F | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1G | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1H | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1I | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1J | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1K | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1L | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1M | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1N | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1O | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 1P | 237 | -4863 | 9795 | -388 | -930 | 131 | 3629 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.26 | 0.16 | 1.73 | 4.08 | 0.54 | 16.8 |
| 2 | 237 | -7895 | 15139 | -612 | -1503 | 205 | 6780 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.54 | 0.25 | 2.74 | 6.30 | 0.87 | 12.5 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 12.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1B | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1C | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1D | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1E | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1F | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1G | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1H | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1I | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1J | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1K | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1L | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1M | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1N | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1O | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 1P | 271 | -4863 | 9240 | -388 | -930 | 262 | 6850 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.66 | 0.15 | 1.66 | 3.85 | 0.54 | 16.8 |
| 2 | 271 | -7895 | 14286 | -612 | -1503 | 412 | 11762 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.78 | 0.24 | 2.44 | 5.95 | 0.87 | 13.1 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 13.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1B | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1C | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1E | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1F | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1G | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1H | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1I | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1J | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1K | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1L | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1M | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1N | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1O | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 1P | 305 | -4863 | 8685 | -388 | -930 | 394 | 9884 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.70 | 0.15 | 1.54 | 3.62 | 0.54 | 16.8 |
| 2 | 305 | -7895 | 13433 | -612 | -1503 | 619 | 16455 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.89 | 0.23 | 2.23 | 5.59 | 0.87 | 13.7 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 13.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1B | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1C | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1D | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1E | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1F | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1G | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1H | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1I | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1J | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1K | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1L | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1M | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1N | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1O | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 1P | 338 | -4863 | 8130 | -388 | -930 | 525 | 12730 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.14 | 1.48 | 3.39 | 0.54 | 16.8 |
| 2 | 338 | -7895 | 12580 | -612 | -1503 | 827 | 20860 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.94 | 0.22 | 2.07 | 5.24 | 0.87 | 14.4 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 36** NI 16176 NF 16177 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -5172 | 3963 | -215 | -35 | -94 | 12710 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.05 | 0.47 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -8410 | 5849 | -360 | -80 | -165 | 20830 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.93 | 0.07 | 0.58 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -5172 | 3428 | -215 | -35 | -24 | 13916 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.78 | 0.04 | 0.37 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -8410 | 5027 | -360 | -80 | -48 | 22604 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | -5172 | 2893 | -215 | -35 | 46 | 14948 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.85 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | -8410 | 4205 | -360 | -80 | 70 | 24109 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | -5172 | 2359 | -215 | -35 | 117 | 15805 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.90 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | -8410 | 3384 | -360 | -80 | 187 | 25346 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.04 | 0.34 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 131 | -5172 | 1824 | -215 | -35 | 187 | 16488 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 131 | -8410 | 2562 | -360 | -80 | 305 | 26315 | 9.24 | 3.08 | 10.78 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | -5172 | 1289 | -215 | -35 | 257 | 16996 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | -8410 | 1740 | -360 | -80 | 422 | 27016 | 9.24 | 3.08 | 10.78 | 3.08 | 5 | 0.90 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -5172 | 754 | -215 | -35 | 327 | 17330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -8410 | 918 | -360 | -80 | 540 | 27449 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.92 | 0.01 | 0.12 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | -5172 | 219 | -215 | -35 | 398 | 17489 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.00 | 0.04 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | -8410 | 96 | -360 | -80 | 657 | 27614 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.92 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1B | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1C | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1D | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1E | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1F | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1G | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1H | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1I | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1J | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1K | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1L | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1M | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1N | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1O | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1P | 261 | -5172 | -315 | -215 | -35 | 468 | 17474 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 2 | 261 | -8410 | -725 | -360 | -80 | 775 | 27511 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.92 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -5172 | -850 | -215 | -35 | 538 | 17284 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.99 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -8410 | -1547 | -360 | -80 | 892 | 27140 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.91 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | -5172 | -1385 | -215 | -35 | 608 | 16920 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | -8410 | -2369 | -360 | -80 | 1010 | 26500 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.88 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 37**  NI 16177  NF 16271  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  6.1600  5.3856  18.5456  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -5470 | -6336 | 341 | 281 | 632 | 17200 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.98 | 0.09 | 0.82 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -8894 | -10390 | 582 | 454 | 1077 | 26970 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.90 | 0.14 | 1.13 | 4.33 | 0.26 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1B | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1C | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1D | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1E | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1F | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1G | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1H | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1I | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1J | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1K | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1L | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1M | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1N | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1O | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 1P | 34 | -5470 | -6896 | 341 | 281 | 515 | 14938 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.84 | 0.09 | 0.87 | 0.00 | 0.00 | 16.8 |
| 2 | 34 | -8894 | -11251 | 582 | 454 | 878 | 23272 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.15 | 1.25 | 4.68 | 0.26 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1B | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1C | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1D | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1E | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1F | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1G | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1H | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1I | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1J | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1K | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1L | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1M | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1N | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1O | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 1P | 68 | -5470 | -7457 | 341 | 281 | 398 | 12485 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.10 | 1.00 | 3.11 | 0.16 | 16.8 |
| 2 | 68 | -8894 | -12112 | 582 | 454 | 679 | 19279 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.16 | 1.38 | 5.04 | 0.26 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1B | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1C | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1D | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1E | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1F | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1G | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1H | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1I | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1J | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1K | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1L | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1M | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1N | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1O | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 1P | 103 | -5470 | -8017 | 341 | 281 | 282 | 9840 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.68 | 0.11 | 1.06 | 3.34 | 0.16 | 16.8 |
| 2 | 103 | -8894 | -12973 | 582 | 454 | 481 | 14992 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.78 | 0.17 | 1.54 | 5.40 | 0.26 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1B | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1C | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1D | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1E | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1F | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1G | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1H | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1I | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1J | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1K | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1L | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1M | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1O | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 1P | 137 | -5470 | -8578 | 341 | 281 | 165 | 7003 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.66 | 0.11 | 1.20 | 3.57 | 0.16 | 16.8 |
| 2 | 137 | -8894 | -13834 | 582 | 454 | 282 | 10410 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.18 | 1.92 | 5.76 | 0.26 | 16.0 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1B | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1C | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1D | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1E | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1F | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1G | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1H | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1I | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1J | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1K | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1L | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1M | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1N | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1O | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 1P | 171 | -5470 | -9138 | 341 | 281 | 49 | 3975 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.28 | 0.12 | 1.27 | 3.81 | 0.16 | 16.8 |
| 2 | 171 | -8894 | -14695 | 582 | 454 | 83 | 5535 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.35 | 0.19 | 2.02 | 6.12 | 0.26 | 15.1 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 15.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1B | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1C | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1D | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1E | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1F | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1G | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1H | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1I | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1J | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1K | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1L | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1M | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1N | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1O | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 1P | 205 | -5470 | -9698 | 341 | 281 | -68 | 755 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.13 | 1.34 | 4.04 | 0.16 | 16.8 |
| 2 | 205 | -8894 | -15556 | 582 | 454 | -116 | 364 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.20 | 2.12 | 6.48 | 0.26 | 14.4 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1B | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1C | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1D | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1E | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1F | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1G | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1H | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1I | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1J | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1K | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1L | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1M | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1N | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1O | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 1P | 239 | -5470 | -10259 | 341 | 281 | -185 | -2656 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.13 | 0.13 | 1.41 | 4.27 | 0.16 | 16.8 |
| 2 | 239 | -8894 | -16417 | 582 | 454 | -315 | -5100 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.21 | 2.38 | 6.84 | 0.26 | 13.7 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 13.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1B | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1C | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1D | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1E | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1F | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1G | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1H | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1I | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1J | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1K | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1L | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1M | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1N | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1O | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 1P | 273 | -5470 | -10819 | 341 | 281 | -301 | -6259 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.57 | 0.14 | 1.47 | 4.51 | 0.16 | 11.2 |
| 2 | 273 | -8894 | -17278 | 582 | 454 | -514 | -10859 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.68 | 0.22 | 2.49 | 7.19 | 0.26 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1B | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1C | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1D | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1E | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1F | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1G | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1I | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1J | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1K | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1L | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1M | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1N | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1O | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 1P | 308 | -5470 | -11380 | 341 | 281 | -418 | -10054 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.70 | 0.15 | 1.54 | 4.74 | 0.16 | 11.2 |
| 2 | 308 | -8894 | -18139 | 582 | 454 | -712 | -16912 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.23 | 2.60 | 7.55 | 0.26 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1B | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1C | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1D | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1E | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1F | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1G | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1H | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1I | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1J | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1K | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1L | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1M | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1N | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1O | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 1P | 342 | -5470 | -11940 | 341 | 281 | -534 | -14040 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.15 | 1.61 | 4.97 | 0.16 | 11.2 |
| 2 | 342 | -8894 | -19000 | 582 | 454 | -911 | -23260 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.88 | 0.24 | 2.71 | 7.91 | 0.26 | 11.2 |

apost= --  aant= 6.16 ainf= 3.08 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 38**  NI 16171  NF 16172  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  6.1600  5.3856  18.5456  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1B | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1C | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1D | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1E | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1F | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1G | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1H | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1I | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1J | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1K | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1L | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1M | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1N | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1O | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 1P | 0 | -5704 | 14770 | -336 | -334 | -690 | -24605 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.97 | 0.19 | 1.99 | 6.15 | 0.19 | 11.2 |
| 2 | 0 | -9289 | 22900 | -527 | -497 | -1083 | -37065 | 3.08 | 9.24 | 7.70 | 13.85 | 4 | 1.00 | 0.29 | 3.25 | 9.54 | 0.29 | 9.9 |

apost= --  aant= 6.16 ainf= 4.62 asup= 10.78 staffe= 2 d  8 / 9.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1B | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1C | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1D | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1E | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1F | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1G | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1H | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1I | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1J | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1K | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1L | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1M | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1N | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1O | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 1P | 34 | -5704 | 14215 | -336 | -334 | -576 | -21916 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.86 | 0.18 | 1.92 | 5.92 | 0.19 | 11.2 |
| 2 | 34 | -9289 | 22047 | -527 | -497 | -904 | -32894 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.98 | 0.28 | 3.14 | 9.18 | 0.29 | 10.3 |

apost= --  aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 10.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1B | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1C | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1D | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1E | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1F | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1G | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1H | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1J | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1K | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1L | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1M | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1N | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1O | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 1P | 68 | -5704 | 13660 | -336 | -334 | -462 | -17200 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.18 | 1.85 | 5.69 | 0.19 | 11.2 |
| 2 | 68 | -9289 | 21194 | -527 | -497 | -726 | -25576 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.97 | 0.27 | 3.03 | 8.83 | 0.29 | 10.7 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 10.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1B | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1C | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1D | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1E | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1F | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1G | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1H | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1I | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1J | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1K | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1L | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1M | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1N | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1O | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 1P | 102 | -5704 | 13104 | -336 | -334 | -349 | -12671 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.91 | 0.17 | 1.79 | 5.46 | 0.19 | 16.8 |
| 2 | 102 | -9289 | 20341 | -527 | -497 | -547 | -18547 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.99 | 0.26 | 2.92 | 8.47 | 0.29 | 11.1 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 11.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1B | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1C | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1D | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1E | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1F | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1G | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1H | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1I | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1J | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1K | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1L | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1M | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1N | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1O | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 1P | 135 | -5704 | 12549 | -336 | -334 | -235 | -8331 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.82 | 0.16 | 1.72 | 5.23 | 0.19 | 16.8 |
| 2 | 135 | -9289 | 19488 | -527 | -497 | -369 | -11806 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.25 | 2.81 | 8.11 | 0.29 | 11.6 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 11.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1B | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1C | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1D | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1E | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1F | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1G | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1H | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1I | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1J | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1K | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1L | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1M | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1N | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1O | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 1P | 169 | -5704 | 11994 | -336 | -334 | -121 | -4178 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.30 | 0.16 | 1.65 | 4.99 | 0.19 | 16.8 |
| 2 | 169 | -9289 | 18635 | -527 | -497 | -190 | -5353 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.31 | 0.24 | 2.70 | 7.76 | 0.29 | 12.1 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 12.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1B | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1C | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1D | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1E | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1F | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1G | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1H | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1I | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1J | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1K | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1L | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1M | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1N | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1O | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 1P | 203 | -5704 | 11439 | -336 | -334 | -7 | -213 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.02 | 0.15 | 1.59 | 4.76 | 0.19 | 16.8 |
| 2 | 203 | -9289 | 17782 | -528 | -497 | -12 | 810 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.03 | 0.23 | 2.40 | 7.40 | 0.29 | 12.6 |

apost= --  aant= 6.16 ainf= 6.16 asup= 6.16 staffe= 2 d  8 / 12.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1B | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1D | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1E | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1F | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1G | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1H | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1I | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1J | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1K | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1L | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1M | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1N | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1O | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 1P | 237 | -5704 | 10884 | -336 | -334 | 107 | 3565 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.22 | 0.14 | 1.52 | 4.53 | 0.19 | 16.8 |
| 2 | 237 | -9289 | 16929 | -527 | -497 | 167 | 6685 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.47 | 0.22 | 2.30 | 7.05 | 0.29 | 13.2 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 13.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1B | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1C | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1D | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1E | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1F | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1G | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1H | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1I | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1J | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1K | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1L | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1M | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1N | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1O | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 1P | 271 | -5704 | 10328 | -336 | -334 | 221 | 7154 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.67 | 0.14 | 1.45 | 4.30 | 0.19 | 16.8 |
| 2 | 271 | -9289 | 16076 | -527 | -497 | 346 | 12272 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.79 | 0.21 | 1.99 | 6.69 | 0.29 | 13.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 13.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1B | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1C | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1D | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1E | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1F | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1G | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1H | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1I | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1J | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1K | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1L | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1M | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1N | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1O | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 1P | 305 | -5704 | 9773 | -336 | -334 | 335 | 10556 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.74 | 0.13 | 1.29 | 4.07 | 0.19 | 16.8 |
| 2 | 305 | -9289 | 15223 | -527 | -497 | 524 | 17570 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.20 | 1.77 | 6.34 | 0.29 | 14.5 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 14.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1B | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1C | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1D | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1E | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1F | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1G | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1H | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1I | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1J | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1K | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1L | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1M | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1N | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1O | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 1P | 338 | -5704 | 9218 | -336 | -334 | 449 | 13770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.76 | 0.12 | 1.14 | 3.84 | 0.19 | 16.8 |
| 2 | 338 | -9289 | 14370 | -527 | -497 | 703 | 22580 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.19 | 1.53 | 5.98 | 0.29 | 15.3 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 15.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 39**  NI 16172  NF 16173  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  6.1600  5.3856  18.5456  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -5521 | 4238 | -144 | -3 | 10 | 13670 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.76 | 0.05 | 0.43 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -8985 | 6316 | -227 | -10 | 16 | 22390 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.07 | 0.55 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -5521 | 3703 | -144 | -3 | 57 | 14965 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.84 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -8985 | 5494 | -227 | -10 | 90 | 24317 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | -5521 | 3168 | -144 | -3 | 104 | 16086 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | -8985 | 4673 | -227 | -10 | 164 | 25975 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.99 | 0.05 | 0.41 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | -5521 | 2634 | -144 | -3 | 151 | 17032 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.97 | 0.03 | 0.27 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | -8985 | 3851 | -227 | -10 | 238 | 27365 | 9.24 | 3.08 | 10.78 | 3.08 | 6 | 0.91 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1B | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1C | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1D | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1E | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1F | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1G | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1H | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1I | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1J | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1K | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1L | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1M | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1N | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1O | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 1P | 131 | -5521 | 2099 | -144 | -3 | 197 | 17804 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.82 | 0.02 | 0.20 | 0.00 | 0.00 | 16.8 |
| 2 | 131 | -8985 | 3029 | -227 | -10 | 312 | 28487 | 9.24 | 3.08 | 10.78 | 3.08 | 6 | 0.95 | 0.04 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | -5521 | 1564 | -144 | -3 | 244 | 18401 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.85 | 0.02 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | -8985 | 2207 | -227 | -10 | 387 | 29341 | 9.24 | 3.08 | 10.78 | 3.08 | 5 | 0.98 | 0.03 | 0.19 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -5521 | 1029 | -144 | -3 | 291 | 18824 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.10 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -8985 | 1386 | -227 | -10 | 461 | 29927 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.88 | 0.02 | 0.12 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | -5521 | 494 | -144 | -3 | 338 | 19072 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | -8985 | 564 | -227 | -10 | 535 | 30245 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.89 | 0.01 | 0.05 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1B | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1C | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1D | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1E | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1F | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1G | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1H | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1I | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1J | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1K | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1L | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1M | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1N | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1O | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 1P | 261 | -5521 | -40 | -144 | -3 | 385 | 19146 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.00 | 0.01 | 0.00 | 0.00 | 16.8 |
| 2 | 261 | -8985 | -258 | -227 | -10 | 609 | 30295 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.90 | 0.00 | 0.03 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -5521 | -575 | -144 | -3 | 432 | 19045 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.89 | 0.01 | 0.06 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -8985 | -1079 | -227 | -10 | 683 | 30077 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.89 | 0.01 | 0.09 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | -5521 | -1110 | -144 | -3 | 479 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | -8985 | -1901 | -227 | -10 | 758 | 29590 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.99 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 77** NI 16173 NF 16272 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -5306 | -5490 | 284 | 65 | 627 | 18660 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.56 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -8621 | -8969 | 452 | 98 | 1002 | 29420 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.99 | 0.11 | 0.80 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1B | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1C | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1D | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1E | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1F | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1G | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1H | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1I | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1J | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1K | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1L | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1M | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1N | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1O | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1P | 34 | -5306 | -6050 | 284 | 65 | 530 | 16687 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 2 | 34 | -8621 | -9830 | 452 | 98 | 848 | 26206 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.87 | 0.12 | 0.87 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1B | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1C | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1D | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1E | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1F | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1G | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1H | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1I | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1J | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1K | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1L | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1N | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1O | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 1P | 68 | -5306 | -6610 | 284 | 65 | 433 | 14523 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.08 | 0.72 | 0.00 | 0.00 | 16.8 |
| 2 | 68 | -8621 | -10691 | 452 | 98 | 693 | 22697 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 0.98 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1B | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1C | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1D | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1E | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1F | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1G | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1H | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1I | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1J | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1K | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1L | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1M | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1N | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1O | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 1P | 103 | -5306 | -7170 | 284 | 65 | 336 | 12168 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.09 | 0.84 | 0.00 | 0.00 | 16.8 |
| 2 | 103 | -8621 | -11552 | 452 | 98 | 539 | 18894 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.12 | 4.81 | 0.06 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1B | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1C | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1D | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1E | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1F | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1G | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1H | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1I | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1J | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1K | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1L | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1M | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1N | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1O | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 1P | 137 | -5306 | -7730 | 284 | 65 | 239 | 9620 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.99 | 0.09 | 0.97 | 0.00 | 0.00 | 16.8 |
| 2 | 137 | -8621 | -12413 | 452 | 98 | 385 | 14796 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.77 | 0.15 | 1.27 | 5.17 | 0.06 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1B | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1C | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1D | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1E | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1F | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1G | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1H | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1I | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1J | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1K | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1L | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1M | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1N | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1O | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 1P | 171 | -5306 | -8290 | 284 | 65 | 142 | 6882 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.65 | 0.10 | 1.04 | 3.45 | 0.04 | 16.8 |
| 2 | 171 | -8621 | -13275 | 452 | 98 | 230 | 10405 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.16 | 1.64 | 5.53 | 0.06 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1B | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1C | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1D | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1E | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1F | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1G | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1H | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1I | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1J | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1K | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1L | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1M | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1N | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1O | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 1P | 205 | -5306 | -8850 | 284 | 65 | 45 | 3951 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.29 | 0.11 | 1.10 | 3.69 | 0.04 | 16.8 |
| 2 | 205 | -8621 | -14136 | 452 | 98 | 76 | 5718 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.38 | 0.17 | 1.74 | 5.89 | 0.06 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1B | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1C | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1D | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1E | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1F | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1H | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1I | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1J | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1K | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1L | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1M | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1N | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1O | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 1P | 239 | -5306 | -9410 | 284 | 65 | -52 | 829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.02 | 0.11 | 1.17 | 3.92 | 0.04 | 16.8 |
| 2 | 239 | -8621 | -14997 | 452 | 98 | -79 | 738 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.03 | 0.18 | 1.85 | 6.24 | 0.06 | 15.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 15.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1B | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1C | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1D | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1E | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1F | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1G | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1H | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1I | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1J | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1K | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1L | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1M | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1N | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1O | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 1P | 273 | -5306 | -9970 | 284 | 65 | -149 | -2484 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.11 | 0.12 | 1.24 | 4.15 | 0.04 | 11.2 |
| 2 | 273 | -8621 | -15858 | 452 | 98 | -233 | -4537 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.24 | 0.19 | 2.08 | 6.60 | 0.06 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1B | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1C | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1D | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1E | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1F | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1G | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1H | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1I | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1J | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1K | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1L | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1M | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1N | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1O | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 1P | 308 | -5306 | -10530 | 284 | 65 | -246 | -5989 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.54 | 0.13 | 1.30 | 4.38 | 0.04 | 11.2 |
| 2 | 308 | -8621 | -16719 | 452 | 98 | -387 | -10106 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.92 | 0.20 | 2.19 | 6.96 | 0.06 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1B | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1C | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1D | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1E | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1F | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1G | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1H | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1I | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1J | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1K | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1L | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1M | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1N | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1O | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 1P | 342 | -5306 | -11090 | 284 | 65 | -343 | -9686 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.67 | 0.13 | 1.37 | 4.62 | 0.04 | 11.2 |
| 2 | 342 | -8621 | -17580 | 452 | 98 | -542 | -15970 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.84 | 0.21 | 2.30 | 7.32 | 0.06 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 40**  NI 16167  NF 16168  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  6.6440  5.3856  19.0296  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1B | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1C | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1D | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1E | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1F | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1G | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1I | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1J | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1K | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1L | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1M | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1N | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1O | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 1P | 0 | -7080 | 15590 | -468 | -486 | -963 | -25432 | 3.08 | 9.24 | 6.16 | 9.24 | 3 | 0.99 | 0.20 | 2.23 | 6.49 | 0.28 | 11.2 |
| 2 | 0 | -11260 | 24000 | -724 | -584 | -1490 | -37990 | 3.08 | 9.24 | 7.70 | 15.39 | 3 | 0.92 | 0.30 | 3.57 | 9.99 | 0.34 | 9.4 |

apost= --  aant= 6.16 ainf= 4.62 asup= 12.32 staffe= 2 d  8 / 9.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1B | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1C | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1D | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1E | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1F | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1G | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1H | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1I | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1J | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1K | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1L | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1M | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1N | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1O | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 1P | 34 | -7080 | 15019 | -468 | -486 | -804 | -22590 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.87 | 0.20 | 2.16 | 6.25 | 0.28 | 11.2 |
| 2 | 34 | -11260 | 23127 | -724 | -584 | -1245 | -33614 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.98 | 0.29 | 3.45 | 9.63 | 0.34 | 9.8 |

apost= --  aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 9.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1B | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1C | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1D | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1E | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1F | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1G | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1H | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1I | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1J | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1K | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1L | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1M | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1N | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1O | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 1P | 68 | -7080 | 14448 | -468 | -486 | -646 | -17603 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.19 | 2.08 | 6.02 | 0.28 | 11.2 |
| 2 | 68 | -11260 | 22254 | -724 | -584 | -1000 | -25934 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.96 | 0.28 | 3.33 | 9.27 | 0.34 | 10.1 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 10.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1B | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1C | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1D | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1E | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1F | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1G | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1H | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1I | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1J | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1K | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1L | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1M | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1N | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1O | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 1P | 102 | -7080 | 13876 | -468 | -486 | -488 | -12810 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.89 | 0.19 | 2.01 | 5.78 | 0.28 | 15.9 |
| 2 | 102 | -11260 | 21381 | -724 | -584 | -755 | -18550 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.96 | 0.27 | 3.22 | 8.90 | 0.34 | 10.5 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 10.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1B | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1C | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1D | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1E | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1F | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1G | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1H | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1I | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1J | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1K | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1L | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1M | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1N | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1O | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 1P | 135 | -7080 | 13305 | -468 | -486 | -329 | -8210 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.75 | 0.18 | 1.94 | 5.54 | 0.28 | 16.5 |
| 2 | 135 | -11260 | 20508 | -724 | -584 | -509 | -11461 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.99 | 0.26 | 3.10 | 8.54 | 0.34 | 10.9 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 10.9  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1C | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1D | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1E | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1F | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1G | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1H | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1I | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1J | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1K | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1L | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1M | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1N | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1O | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 1P | 169 | -7080 | 12734 | -468 | -486 | -171 | -3804 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.20 | 0.17 | 1.87 | 5.30 | 0.28 | 16.8 |
| 2 | 169 | -11260 | 19635 | -724 | -584 | -264 | -4668 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.18 | 0.25 | 2.98 | 8.18 | 0.34 | 11.4 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 11.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1B | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1C | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1D | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1E | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1F | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1G | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1H | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1I | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1J | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1K | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1L | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1M | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1N | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1O | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 1P | 203 | -7080 | 12163 | -468 | -486 | -13 | 410 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.02 | 0.17 | 1.78 | 5.06 | 0.28 | 16.8 |
| 2 | 203 | -11260 | 18762 | -724 | -584 | -19 | 1829 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.05 | 0.24 | 2.49 | 7.81 | 0.34 | 11.8 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 11.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1B | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1C | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1D | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1E | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1F | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1G | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1H | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1I | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1J | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1K | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1L | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1M | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1N | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1O | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 1P | 237 | -7080 | 11592 | -468 | -486 | 146 | 4430 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.16 | 1.71 | 4.83 | 0.28 | 16.8 |
| 2 | 237 | -11260 | 17889 | -724 | -584 | 226 | 8030 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.56 | 0.23 | 2.39 | 7.45 | 0.34 | 12.4 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 12.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1B | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1C | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1D | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1E | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1F | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1G | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1H | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1I | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1J | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1K | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1L | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1M | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1N | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1O | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 1P | 271 | -7080 | 11020 | -468 | -486 | 304 | 8257 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.75 | 0.15 | 1.64 | 4.59 | 0.28 | 16.8 |
| 2 | 271 | -11260 | 17016 | -724 | -584 | 471 | 13936 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.88 | 0.22 | 2.09 | 7.09 | 0.34 | 13.0 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d  8 / 13.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1B | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1C | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1D | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1E | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1F | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1G | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1H | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1I | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1J | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1K | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1L | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1M | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1N | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 1O | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 305 | -7080 | 10449 | -468 | -486 | 462 | 11890 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.81 | 0.15 | 1.43 | 4.35 | 0.28 | 16.8 |
| 2 | 305 | -11260 | 16143 | -724 | -584 | 716 | 19546 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.82 | 0.21 | 1.78 | 6.72 | 0.34 | 13.6 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 13.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1B | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1C | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1D | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1E | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1F | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1G | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1H | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1I | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1J | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1K | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1L | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1M | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1N | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1O | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 1P | 338 | -7080 | 9878 | -468 | -486 | 621 | 15330 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.83 | 0.14 | 1.28 | 4.11 | 0.28 | 16.8 |
| 2 | 338 | -11260 | 15270 | -724 | -584 | 961 | 24860 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.20 | 1.63 | 6.36 | 0.34 | 14.3 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 14.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 41** NI 16168 NF 16169 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6440 5.3856 19.0296 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -7148 | 4119 | -154 | -138 | -24 | 15530 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.85 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -11400 | 6060 | -229 | -187 | -26 | 25160 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.93 | 0.08 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -7148 | 3568 | -154 | -138 | 27 | 16784 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.92 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -11400 | 5218 | -229 | -187 | 49 | 27001 | 9.24 | 3.08 | 10.78 | 3.08 | 2 | 0.87 | 0.07 | 0.53 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | -7148 | 3018 | -154 | -138 | 77 | 17859 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.99 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 65 | -11400 | 4376 | -229 | -187 | 124 | 28567 | 9.24 | 3.08 | 10.78 | 3.08 | 6 | 0.93 | 0.06 | 0.46 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | -7148 | 2467 | -154 | -138 | 127 | 18754 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.04 | 0.31 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | -11400 | 3533 | -229 | -187 | 198 | 29858 | 9.24 | 3.08 | 10.78 | 3.08 | 6 | 0.98 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1B | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1C | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1D | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1E | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1F | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1G | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1H | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1I | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1J | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1K | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1L | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1M | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1N | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1O | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1P | 131 | -7148 | 1917 | -154 | -138 | 177 | 19470 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 2 | 131 | -11400 | 2691 | -229 | -187 | 273 | 30874 | 9.24 | 3.08 | 12.32 | 3.08 | 6 | 0.89 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | -7148 | 1366 | -154 | -138 | 227 | 20006 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | -11400 | 1849 | -229 | -187 | 347 | 31615 | 9.24 | 3.08 | 12.32 | 3.08 | 6 | 0.92 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -7148 | 815 | -154 | -138 | 277 | 20362 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -11400 | 1007 | -229 | -187 | 422 | 32082 | 9.24 | 3.08 | 12.32 | 3.08 | 6 | 0.93 | 0.02 | 0.19 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | -7148 | 265 | -154 | -138 | 327 | 20538 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | -11400 | 165 | -229 | -187 | 497 | 32274 | 9.24 | 3.08 | 12.32 | 3.08 | 5 | 0.94 | 0.01 | 0.13 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1B | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1C | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1D | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1E | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1F | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1G | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1H | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1I | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1J | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1K | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1L | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1M | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1N | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1O | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 1P | 261 | -7148 | -286 | -154 | -138 | 378 | 20535 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.01 | 0.11 | 0.00 | 0.00 | 16.8 |
| 2 | 261 | -11400 | -678 | -229 | -187 | 571 | 32191 | 9.24 | 3.08 | 12.32 | 3.08 | 5 | 0.94 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -7148 | -836 | -154 | -138 | 428 | 20352 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.93 | 0.02 | 0.16 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -11400 | -1520 | -229 | -187 | 646 | 31833 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.92 | 0.03 | 0.23 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | -7148 | -1387 | -154 | -138 | 478 | 19990 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.91 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | -11400 | -2362 | -229 | -187 | 720 | 31200 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.90 | 0.04 | 0.30 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 42** NI 16169 NF 16273 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6440 5.3856 19.0296 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -7209 | -7901 | 146 | 184 | 365 | 20110 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.10 | 0.85 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -11520 | -12810 | 214 | 244 | 547 | 31420 | 9.24 | 3.08 | 12.32 | 3.08 | 5 | 0.91 | 0.16 | 1.13 | 5.33 | 0.14 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1B | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1C | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1D | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1E | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1F | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1G | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1H | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1I | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1J | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1K | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1L | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1M | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1N | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1O | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 1P | 34 | -7209 | -8478 | 146 | 184 | 316 | 17311 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.96 | 0.11 | 0.96 | 0.00 | 0.00 | 16.8 |
| 2 | 34 | -11520 | -13693 | 214 | 244 | 474 | 26889 | 9.24 | 3.08 | 10.78 | 3.08 | 5 | 0.87 | 0.17 | 1.24 | 5.70 | 0.14 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1B | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1C | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1D | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1E | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1F | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1G | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1H | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1I | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1J | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1K | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1L | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1M | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1N | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1O | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 1P | 68 | -7209 | -9055 | 146 | 184 | 266 | 14314 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.77 | 0.11 | 1.01 | 3.77 | 0.11 | 16.8 |
| 2 | 68 | -11520 | -14576 | 214 | 244 | 401 | 22056 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.18 | 1.43 | 6.07 | 0.14 | 15.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 15.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1B | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1C | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1D | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1E | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1F | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1G | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1H | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1I | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1J | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1K | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1L | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1M | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1N | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1O | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 1P | 103 | -7209 | -9632 | 146 | 184 | 216 | 11120 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.75 | 0.12 | 1.16 | 4.01 | 0.11 | 16.8 |
| 2 | 103 | -11520 | -15459 | 214 | 244 | 328 | 16921 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.85 | 0.19 | 1.60 | 6.44 | 0.14 | 15.0 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 15.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1B | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1C | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1D | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1E | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1F | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1G | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1H | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1I | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1J | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1K | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1L | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1M | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1N | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1O | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 1P | 137 | -7209 | -10209 | 146 | 184 | 166 | 7729 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.68 | 0.13 | 1.36 | 4.25 | 0.11 | 16.8 |
| 2 | 137 | -11520 | -16342 | 214 | 244 | 255 | 11485 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.98 | 0.20 | 2.00 | 6.80 | 0.14 | 14.2 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 14.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1B | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1C | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1D | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1E | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1G | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1H | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1I | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1J | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1K | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1L | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1M | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1N | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1O | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 1P | 171 | -7209 | -10786 | 146 | 184 | 117 | 4140 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.24 | 0.13 | 1.43 | 4.49 | 0.11 | 16.8 |
| 2 | 171 | -11520 | -17225 | 214 | 244 | 182 | 5747 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.28 | 0.21 | 2.10 | 7.17 | 0.14 | 13.5 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 13.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1B | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1C | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1D | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1E | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1F | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1G | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1H | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1I | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1J | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1K | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1L | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1M | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1N | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1O | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 1P | 205 | -7209 | -11362 | 146 | 184 | 67 | 355 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.02 | 0.14 | 1.50 | 4.73 | 0.11 | 16.8 |
| 2 | 205 | -11520 | -18108 | 214 | 244 | 109 | -293 | 9.24 | 3.08 | 3.08 | 9.24 | 6 | 0.03 | 0.22 | 2.58 | 7.54 | 0.14 | 12.9 |

apost= 6.16 aant= -- ainf= 6.16 asup= 6.16 staffe= 2 d 8 / 12.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1B | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1C | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1D | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1E | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1F | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1G | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1H | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1I | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1J | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1K | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1L | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1M | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1N | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1O | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 1P | 239 | -7209 | -11939 | 146 | 184 | 17 | -3628 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.18 | 0.15 | 1.59 | 4.97 | 0.11 | 16.8 |
| 2 | 239 | -11520 | -18991 | 214 | 244 | 36 | -6635 | 9.24 | 3.08 | 3.08 | 9.24 | 2 | 0.39 | 0.23 | 2.70 | 7.91 | 0.14 | 12.3 |

apost= 6.16 aant= -- ainf= -- asup= 6.16 staffe= 2 d 8 / 12.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1B | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1C | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1D | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1E | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1F | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1G | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1H | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1I | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1J | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1K | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1L | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1M | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1N | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1O | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 1P | 273 | -7209 | -12516 | 146 | 184 | -33 | -7808 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.69 | 0.15 | 1.67 | 5.21 | 0.11 | 11.2 |
| 2 | 273 | -11520 | -19874 | 214 | 244 | -37 | -13278 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.82 | 0.24 | 2.82 | 8.28 | 0.14 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1B | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1C | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1D | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1E | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1F | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1G | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1H | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1I | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1J | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1K | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1L | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1M | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1N | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1O | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 1P | 308 | -7209 | -13093 | 146 | 184 | -82 | -12185 | 3.08 | 9.24 | 4.62 | 9.24 | 2 | 0.83 | 0.16 | 1.74 | 5.45 | 0.11 | 11.2 |
| 2 | 308 | -11520 | -20757 | 214 | 244 | -110 | -20223 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.85 | 0.25 | 2.94 | 8.64 | 0.14 | 11.2 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 11.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1B | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1C | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1D | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1E | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1F | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1G | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1H | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1I | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1J | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1K | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1L | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1M | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1N | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1O | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 1P | 342 | -7209 | -13670 | 146 | 184 | -132 | -16760 | 3.08 | 9.24 | 4.62 | 9.24 | 6 | 0.92 | 0.17 | 1.81 | 5.69 | 0.11 | 11.2 |
| 2 | 342 | -11520 | -21640 | 214 | 244 | -183 | -27470 | 3.08 | 9.24 | 6.16 | 10.78 | 6 | 0.89 | 0.26 | 3.06 | 9.01 | 0.14 | 10.8 |

apost= --  aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d  8 / 10.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 43**  NI 16163  NF 16164  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  7.1280  5.3856  19.5136  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1B | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1C | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1D | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1E | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1F | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1G | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1H | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1I | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1J | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1K | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1L | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1M | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1N | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1O | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 1P | 0 | -4151 | 17390 | -195 | -418 | -407 | -29312 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.22 | 2.30 | 7.24 | 0.24 | 11.2 |
| 2 | 0 | -6882 | 26210 | -333 | -263 | -689 | -42948 | 3.08 | 9.24 | 9.24 | 16.93 | 4 | 0.98 | 0.32 | 3.40 | 10.91 | 0.15 | 9.0 |

apost= --  aant= 6.16 ainf= 6.16 asup= 13.85 staffe= 2 d  8 / 9.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1B | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1C | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1D | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1E | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1F | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1G | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1H | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1I | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1J | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1K | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1L | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1M | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1N | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1O | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 1P | 34 | -4151 | 16802 | -195 | -418 | -341 | -26133 | 3.08 | 9.24 | 6.16 | 10.78 | 4 | 0.91 | 0.22 | 2.23 | 7.00 | 0.24 | 11.2 |
| 2 | 34 | -6882 | 25315 | -333 | -263 | -576 | -38162 | 3.08 | 9.24 | 7.70 | 15.39 | 4 | 0.95 | 0.31 | 3.28 | 10.54 | 0.15 | 9.3 |

apost= --  aant= 6.16 ainf= 4.62 asup= 12.32 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1B | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1C | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1D | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1E | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1F | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1G | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1H | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1I | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1J | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1K | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1L | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1M | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1N | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1O | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 1P | 68 | -4151 | 16214 | -195 | -418 | -275 | -20545 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.98 | 0.21 | 2.16 | 6.75 | 0.24 | 11.2 |
| 2 | 68 | -6882 | 24420 | -333 | -263 | -463 | -29746 | 3.08 | 9.24 | 6.16 | 12.32 | 4 | 0.90 | 0.30 | 3.17 | 10.17 | 0.15 | 9.6 |

apost= --  aant= 6.16 ainf= 3.08 asup= 9.24 staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1B | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1C | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1D | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1E | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1F | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1G | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1H | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1I | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1J | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1K | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1L | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1M | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1N | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1O | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 1P | 102 | -4151 | 15626 | -195 | -418 | -208 | -15156 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 0.88 | 0.20 | 2.09 | 6.51 | 0.24 | 14.4 |
| 2 | 102 | -6882 | 23525 | -333 | -263 | -350 | -21634 | 3.08 | 9.24 | 3.08 | 9.24 | 5 | 1.00 | 0.29 | 3.06 | 9.80 | 0.15 | 10.0 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 10.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1B | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1C | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1D | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1E | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1F | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1G | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1H | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1I | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1J | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1K | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1L | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1M | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1N | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1O | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 1P | 135 | -4151 | 15038 | -195 | -418 | -142 | -9966 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.73 | 0.20 | 2.02 | 6.26 | 0.24 | 14.9 |
| 2 | 135 | -6882 | 22630 | -333 | -263 | -237 | -13825 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.98 | 0.27 | 2.95 | 9.42 | 0.15 | 10.3 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 10.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1B | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1C | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1D | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1E | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1F | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1G | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1H | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1I | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1J | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1K | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1L | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1M | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1N | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1O | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 1P | 169 | -4151 | 14450 | -195 | -418 | -76 | -4974 | 3.08 | 9.24 | 3.08 | 9.24 | 2 | 0.46 | 0.19 | 1.95 | 6.02 | 0.24 | 15.5 |
| 2 | 169 | -6882 | 21735 | -333 | -263 | -124 | -6318 | 3.08 | 9.24 | 3.08 | 9.24 | 6 | 0.52 | 0.26 | 2.84 | 9.05 | 0.15 | 10.7 |

apost= --  aant= 6.16 ainf= --  asup= 6.16 staffe= 2 d  8 / 10.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1B | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1C | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1D | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1E | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1F | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1G | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1H | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1I | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1J | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1K | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1L | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1M | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1N | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1O | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 1P | 203 | -4151 | 13862 | -195 | -418 | -10 | -182 | 3.08 | 3.08 | 3.08 | 9.24 | 6 | 0.01 | 0.18 | 1.89 | 5.77 | 0.24 | 16.1 |
| 2 | 203 | -6882 | 20840 | -333 | -263 | -11 | 885 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.03 | 0.25 | 2.72 | 8.68 | 0.15 | 11.2 |

apost= --  aant= 6.16 ainf= 6.16 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1B | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1C | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1D | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1E | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1F | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1G | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1H | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1I | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1J | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1K | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1L | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1M | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1N | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 1P | 237 | -4151 | 13274 | -195 | -418 | 56 | 4412 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.39 | 0.18 | 1.82 | 5.53 | 0.24 | 16.7 |
| 2 | 237 | -6882 | 19945 | -333 | -263 | 101 | 7786 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.70 | 0.24 | 2.61 | 8.31 | 0.15 | 11.7 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d 8 / 11.7 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1B | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1C | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1D | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1E | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1F | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1G | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1H | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1I | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1J | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1K | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1L | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1M | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1N | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1O | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 1P | 271 | -4151 | 12686 | -195 | -418 | 122 | 8807 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.17 | 1.75 | 5.28 | 0.24 | 16.8 |
| 2 | 271 | -6882 | 19050 | -333 | -263 | 214 | 14384 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.78 | 0.23 | 2.06 | 7.93 | 0.15 | 12.2 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d 8 / 12.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1B | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1C | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1D | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1E | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1F | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1G | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1H | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1I | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1J | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1K | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1L | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1M | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1N | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1O | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 1P | 305 | -4151 | 12098 | -196 | -418 | 189 | 13003 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.98 | 0.16 | 1.63 | 5.04 | 0.24 | 16.8 |
| 2 | 305 | -6882 | 18155 | -333 | -263 | 327 | 20678 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.95 | 0.22 | 1.86 | 7.56 | 0.15 | 12.8 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  staffe= 2 d 8 / 12.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1B | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1C | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1D | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1E | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1F | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1G | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1H | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1I | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1J | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1K | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1L | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1M | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1N | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1O | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 1P | 338 | -4151 | 11510 | -195 | -418 | 255 | 17000 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.16 | 1.45 | 4.79 | 0.24 | 16.8 |
| 2 | 338 | -6882 | 17260 | -333 | -263 | 440 | 26670 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.91 | 0.21 | 1.62 | 7.19 | 0.15 | 13.4 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d 8 / 13.4 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 44** NI 16164 NF 16165 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 9.7680 5.3856 22.1536 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 0 | -4459 | 5413 | 87 | -212 | 307 | 16730 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -7285 | 7859 | 132 | -284 | 456 | 26270 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.89 | 0.11 | 0.83 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -4459 | 4760 | 87 | -212 | 278 | 18390 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.87 | 0.07 | 0.59 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -7285 | 6884 | 132 | -284 | 413 | 28675 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.98 | 0.09 | 0.75 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | -4459 | 4108 | 87 | -212 | 250 | 19837 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.94 | 0.06 | 0.53 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | -7285 | 5909 | 132 | -284 | 370 | 30762 | 9.24 | 3.08 | 12.32 | 3.08 | 5 | 0.93 | 0.08 | 0.65 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1I | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | -4459 | 3456 | 87 | -212 | 221 | 21071 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.84 | 0.05 | 0.44 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | -7285 | 4935 | 132 | -284 | 327 | 32531 | 9.24 | 3.08 | 12.32 | 3.08 | 5 | 0.98 | 0.07 | 0.57 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1B | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1C | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1D | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1E | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1F | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1G | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1H | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1I | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1J | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1K | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1L | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1M | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1N | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1O | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 1P | 131 | -4459 | 2803 | 87 | -212 | 193 | 22093 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.89 | 0.04 | 0.38 | 0.00 | 0.00 | 16.8 |
| 2 | 131 | -7285 | 3960 | 132 | -284 | 284 | 33983 | 9.24 | 3.08 | 13.85 | 3.08 | 5 | 0.92 | 0.06 | 0.48 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | -4459 | 2150 | 87 | -212 | 164 | 22901 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.92 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | -7285 | 2985 | 132 | -284 | 241 | 35116 | 9.24 | 3.08 | 13.85 | 3.08 | 6 | 0.95 | 0.05 | 0.40 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -4459 | 1498 | 87 | -212 | 136 | 23497 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.95 | 0.03 | 0.26 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -7285 | 2010 | 132 | -284 | 197 | 35931 | 9.24 | 3.08 | 13.85 | 3.08 | 6 | 0.98 | 0.04 | 0.33 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | -4459 | 846 | 87 | -212 | 107 | 23879 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.96 | 0.02 | 0.21 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | -7285 | 1035 | 132 | -284 | 154 | 36427 | 9.24 | 3.08 | 13.85 | 3.08 | 6 | 0.99 | 0.03 | 0.25 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1B | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1C | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1D | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1E | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1F | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1G | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1H | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1I | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1J | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1K | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1L | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1M | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1N | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1O | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 1P | 261 | -4459 | 193 | 87 | -212 | 79 | 24049 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.01 | 0.15 | 0.00 | 0.00 | 16.8 |
| 2 | 261 | -7285 | 61 | 132 | -284 | 111 | 36606 | 9.24 | 3.08 | 13.85 | 3.08 | 6 | 1.00 | 0.02 | 0.18 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -4459 | -460 | 87 | -212 | 51 | 24006 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.97 | 0.02 | 0.17 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -7285 | -914 | 132 | -284 | 68 | 36467 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.99 | 0.03 | 0.24 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | -4459 | -1112 | 87 | -212 | 22 | 23750 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.96 | 0.02 | 0.23 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | -7285 | -1889 | 132 | -284 | 25 | 36010 | 9.24 | 3.08 | 13.85 | 3.08 | 2 | 0.98 | 0.04 | 0.32 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 45**  NI 16165  NF 16274  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  9.7680  5.3856  22.1536  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -4719 | -6722 | 267 | 191 | 477 | 23720 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.95 | 0.09 | 0.73 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -7607 | -10490 | 355 | 216 | 634 | 35970 | 9.24 | 3.08 | 13.85 | 3.08 | 4 | 0.98 | 0.13 | 0.94 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1B | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1C | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1D | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1E | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1F | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1G | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1H | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1I | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1J | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1K | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1L | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1M | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1N | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1O | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 1P | 34 | -4719 | -7406 | 267 | 191 | 386 | 21305 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.10 | 0.79 | 0.00 | 0.00 | 16.8 |
| 2 | 34 | -7607 | -11511 | 355 | 216 | 513 | 32209 | 9.24 | 3.08 | 12.32 | 3.08 | 4 | 0.97 | 0.14 | 1.06 | 4.79 | 0.12 | 16.8 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1B | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1C | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1D | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1E | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1F | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1G | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1H | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1I | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1J | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1K | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1L | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1M | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1N | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1O | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1P | 68 | -4719 | -8090 | 267 | 191 | 295 | 18656 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.88 | 0.10 | 0.89 | 0.00 | 0.00 | 16.8 |
| 2 | 68 | -7607 | -12532 | 355 | 216 | 391 | 28099 | 9.24 | 3.08 | 10.78 | 3.08 | 4 | 0.95 | 0.16 | 1.18 | 5.22 | 0.12 | 16.8 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1B | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1C | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1D | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1F | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1G | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1H | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1I | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1J | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1K | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1L | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1M | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1N | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1O | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 1P | 103 | -4719 | -8773 | 267 | 191 | 204 | 15773 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.91 | 0.11 | 1.02 | 3.65 | 0.11 | 16.8 |
| 2 | 103 | -7607 | -13553 | 355 | 216 | 270 | 23640 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.91 | 0.17 | 1.32 | 5.64 | 0.12 | 16.8 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1B | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1C | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1D | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1E | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1F | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1G | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1H | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1I | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1J | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1K | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1L | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1M | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1N | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1O | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 1P | 137 | -4719 | -9457 | 267 | 191 | 113 | 12657 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.94 | 0.12 | 1.18 | 3.94 | 0.11 | 16.8 |
| 2 | 137 | -7607 | -14574 | 355 | 216 | 149 | 18832 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.18 | 1.48 | 6.07 | 0.12 | 15.9 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 15.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1B | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1C | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1D | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1E | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1F | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1G | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1H | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1I | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1J | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1K | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1L | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1M | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1N | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1O | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 1P | 171 | -4719 | -10141 | 267 | 191 | 22 | 9307 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.98 | 0.13 | 1.32 | 4.22 | 0.11 | 16.8 |
| 2 | 171 | -7607 | -15595 | 355 | 216 | 27 | 13675 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.95 | 0.19 | 1.81 | 6.49 | 0.12 | 14.9 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- staffe= 2 d 8 / 14.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1B | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1C | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1D | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1E | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1F | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1G | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1H | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1I | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1J | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1K | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1L | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1M | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1N | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1O | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 1P | 205 | -4719 | -10825 | 267 | 191 | -69 | 5723 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.53 | 0.14 | 1.40 | 4.51 | 0.11 | 16.8 |
| 2 | 205 | -7607 | -16616 | 355 | 216 | -94 | 8168 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.72 | 0.20 | 2.15 | 6.92 | 0.12 | 14.0 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 14.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1B | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1C | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1D | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1E | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1F | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1G | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1H | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1I | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1J | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1K | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1L | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1M | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1N | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1O | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 1P | 239 | -4719 | -11509 | 267 | 191 | -161 | 1905 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.07 | 0.14 | 1.48 | 4.79 | 0.11 | 16.8 |
| 2 | 239 | -7607 | -17637 | 355 | 216 | -215 | 2312 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.06 | 0.21 | 2.27 | 7.34 | 0.12 | 13.2 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 13.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1B | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1C | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1D | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1E | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1F | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1G | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1H | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1I | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1J | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1K | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1L | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1M | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1N | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1O | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 1P | 273 | -4719 | -12192 | 267 | 191 | -252 | -2146 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.09 | 0.15 | 1.57 | 5.08 | 0.11 | 11.2 |
| 2 | 273 | -7607 | -18658 | 355 | 216 | -337 | -3893 | 3.08 | 9.24 | 4.62 | 9.24 | 5 | 0.20 | 0.23 | 2.46 | 7.77 | 0.12 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1B | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1C | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1D | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1E | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1F | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1G | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1H | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1I | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1J | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1K | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1L | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1M | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1N | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1O | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 1P | 308 | -4719 | -12876 | 267 | 191 | -343 | -6431 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.62 | 0.16 | 1.65 | 5.36 | 0.11 | 11.2 |
| 2 | 308 | -7607 | -19679 | 355 | 216 | -458 | -10447 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.68 | 0.24 | 2.59 | 8.19 | 0.12 | 11.2 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1B | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1C | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1D | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1E | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1F | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1G | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1H | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1I | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1J | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1K | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1L | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1M | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1N | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1O | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 1P | 342 | -4719 | -13560 | 267 | 191 | -434 | -10950 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.80 | 0.17 | 1.73 | 5.65 | 0.11 | 11.2 |
| 2 | 342 | -7607 | -20700 | 355 | 216 | -579 | -17350 | 3.08 | 9.24 | 6.16 | 9.24 | 4 | 0.95 | 0.25 | 2.72 | 8.62 | 0.12 | 11.2 |

apost= --  aant= 6.16 ainf= 3.08 asup= 6.16 staffe= 2 d  8 / 11.2  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 46**  NI 16159  NF 16160  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.4080  5.3856  24.7936  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1B | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1C | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1D | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1E | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1F | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1G | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1H | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1I | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1J | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1K | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1L | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1M | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1N | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1O | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 1P | 0 | -6494 | 17720 | 252 | 2135 | 549 | -26532 | 9.24 | 4.62 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.47 | 7.38 | 1.23 | 10.2 |
| 2 | 0 | -10110 | 26090 | 300 | 3315 | 668 | -38397 | 9.24 | 4.62 | 7.70 | 15.39 | 4 | 0.93 | 0.47 | 5.42 | 10.86 | 1.91 | 6.8 |

apost= 6.16 aant= 1.54 ainf= 4.62 asup= 12.32 staffe= 2 d  8 / 6.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1B | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1C | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1D | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1E | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1F | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1G | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1H | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1I | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1J | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1K | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1L | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1M | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1N | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1O | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 1P | 34 | -6494 | 16953 | 252 | 2135 | 464 | -23324 | 9.24 | 4.62 | 6.16 | 9.24 | 4 | 0.91 | 0.31 | 3.37 | 7.06 | 1.23 | 10.6 |
| 2 | 34 | -10110 | 24962 | 300 | 3315 | 566 | -33672 | 9.24 | 4.62 | 6.16 | 12.32 | 4 | 1.00 | 0.46 | 5.28 | 10.39 | 1.91 | 7.1 |

apost= 6.16 aant= 1.54 ainf= 3.08 asup= 9.24 staffe= 2 d 8 / 7.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1B | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1C | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1D | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1E | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1F | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1G | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1H | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1I | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1J | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1K | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1L | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1M | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1N | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1O | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 1P | 68 | -6494 | 16186 | 252 | 2135 | 379 | -17717 | 9.24 | 4.62 | 4.62 | 9.24 | 4 | 0.99 | 0.30 | 3.28 | 6.74 | 1.23 | 10.9 |
| 2 | 68 | -10110 | 23834 | 300 | 3315 | 465 | -25415 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.96 | 0.44 | 5.13 | 9.92 | 1.91 | 7.3 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 7.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1B | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1C | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1D | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1E | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1F | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1G | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1H | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1I | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1J | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1K | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1L | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1M | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1N | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1O | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 1P | 102 | -6494 | 15419 | 252 | 2135 | 293 | -12370 | 9.24 | 4.62 | 4.62 | 9.24 | 5 | 0.87 | 0.29 | 3.18 | 6.42 | 1.23 | 11.3 |
| 2 | 102 | -10110 | 22706 | 300 | 3315 | 363 | -17541 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.92 | 0.43 | 4.98 | 9.45 | 1.91 | 7.6 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 7.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1B | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1C | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1D | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1E | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1F | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1G | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1H | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1I | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1J | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1K | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1L | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1M | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1N | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1O | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 1P | 135 | -6494 | 14652 | 252 | 2135 | 208 | -7282 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.65 | 0.28 | 3.09 | 6.10 | 1.23 | 11.7 |
| 2 | 135 | -10110 | 21578 | 300 | 3315 | 262 | -10047 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.86 | 0.42 | 4.83 | 8.99 | 1.91 | 7.8 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 7.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1B | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1C | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1D | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1E | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1F | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1G | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1H | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1I | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1J | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1K | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1L | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1M | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1O | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 1P | 169 | -6494 | 13885 | 252 | 2135 | 123 | -2453 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.27 | 2.99 | 5.78 | 1.23 | 12.2 |
| 2 | 169 | -10110 | 20450 | 300 | 3315 | 161 | -2935 | 9.24 | 4.62 | 4.62 | 9.24 | 6 | 0.08 | 0.40 | 4.68 | 8.52 | 1.91 | 8.1 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1B | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1C | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1D | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1E | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1F | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1G | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1H | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1I | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1J | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1K | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1L | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1M | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1N | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1O | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 1P | 203 | -6494 | 13118 | 252 | 2135 | 38 | 2116 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.06 | 0.26 | 2.90 | 5.46 | 1.23 | 12.7 |
| 2 | 203 | -10110 | 19322 | 300 | 3315 | 59 | 3795 | 9.24 | 4.62 | 9.24 | 4.62 | 3 | 0.13 | 0.39 | 4.25 | 8.05 | 1.91 | 8.5 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 8.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1B | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1C | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1D | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1E | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1F | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1G | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1H | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1I | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1J | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1K | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1L | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1M | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1N | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1O | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 1P | 237 | -6494 | 12351 | 252 | 2135 | -47 | 6426 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.55 | 0.25 | 2.81 | 5.14 | 1.23 | 13.2 |
| 2 | 237 | -10110 | 18194 | 300 | 3315 | -42 | 10143 | 4.62 | 9.24 | 9.24 | 4.62 | 2 | 0.87 | 0.38 | 4.12 | 7.58 | 1.91 | 8.8 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 8.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1B | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1C | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1D | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1E | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1F | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1G | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1H | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1I | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1J | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1K | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1L | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1M | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1N | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1O | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 1P | 271 | -6494 | 11584 | 252 | 2135 | -132 | 10477 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.71 | 0.24 | 2.56 | 4.82 | 1.23 | 13.8 |
| 2 | 271 | -10110 | 17066 | 300 | 3315 | -144 | 16111 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.83 | 0.37 | 3.64 | 7.11 | 1.91 | 9.2 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 9.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1B | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1C | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1D | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1E | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1F | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1G | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1H | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1I | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1J | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1K | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1L | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1M | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1N | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1O | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 1P | 305 | -6494 | 10817 | 252 | 2135 | -217 | 14268 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.78 | 0.23 | 2.38 | 4.50 | 1.23 | 14.4 |
| 2 | 305 | -10110 | 15938 | 300 | 3315 | -245 | 21696 | 4.62 | 9.24 | 9.24 | 4.62 | 6 | 0.95 | 0.35 | 3.44 | 6.64 | 1.91 | 9.6 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= 1.54 staffe= 2 d 8 / 9.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1B | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1C | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1D | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1E | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1F | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1G | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1I | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1J | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1K | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1L | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1M | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1N | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1O | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 1P | 338 | -6494 | 10050 | 252 | 2135 | -302 | 17800 | 4.62 | 9.24 | 9.24 | 4.62 | 5 | 0.81 | 0.23 | 2.24 | 4.18 | 1.23 | 15.1 |
| 2 | 338 | -10110 | 14810 | 300 | 3315 | -346 | 26900 | 4.62 | 9.24 | 10.78 | 4.62 | 6 | 0.88 | 0.34 | 3.21 | 6.17 | 1.91 | 10.1 |

apost= 1.54 aant= 6.16 ainf= 7.70 asup= 1.54 staffe= 2 d 8 / 10.1 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 47** NI 16160 NF 16161 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.4080 5.3856 24.7936 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1B | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1C | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1D | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1E | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1F | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1G | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1H | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1I | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1J | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1K | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1L | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1M | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1N | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1O | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 1P | 0 | -6637 | 4874 | 359 | 688 | 663 | 17300 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.97 | 0.09 | 0.91 | 0.00 | 0.00 | 16.8 |
| 2 | 0 | -10330 | 7019 | 516 | 924 | 944 | 26210 | 9.24 | 4.62 | 9.24 | 3.08 | 4 | 0.99 | 0.13 | 1.15 | 2.92 | 0.53 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1B | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1C | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1D | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1E | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1F | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1G | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1H | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1I | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1J | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1K | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1L | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1M | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1N | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1O | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 1P | 33 | -6637 | 4135 | 359 | 688 | 545 | 18770 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.85 | 0.08 | 0.80 | 0.00 | 0.00 | 16.8 |
| 2 | 33 | -10330 | 5932 | 516 | 924 | 775 | 28323 | 9.24 | 4.62 | 10.78 | 3.08 | 4 | 0.93 | 0.12 | 1.04 | 2.47 | 0.53 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1B | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1C | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1D | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1E | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1F | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1G | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1H | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1I | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1J | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1K | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1L | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1M | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1N | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1O | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 1P | 65 | -6637 | 3397 | 359 | 688 | 428 | 19998 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.92 | 0.07 | 0.74 | 0.00 | 0.00 | 16.8 |
| 2 | 65 | -10330 | 4846 | 516 | 924 | 607 | 30081 | 9.24 | 4.62 | 10.78 | 3.08 | 4 | 1.00 | 0.10 | 0.95 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1B | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1C | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1D | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1E | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1F | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1G | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1H | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1J | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1K | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1L | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1M | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1N | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1O | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 1P | 98 | -6637 | 2658 | 359 | 688 | 311 | 20986 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.97 | 0.07 | 0.67 | 0.00 | 0.00 | 16.8 |
| 2 | 98 | -10330 | 3759 | 516 | 924 | 439 | 31484 | 9.24 | 4.62 | 12.32 | 3.08 | 5 | 0.92 | 0.09 | 0.85 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1B | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1C | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1D | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1E | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1F | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1G | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1H | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1I | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1J | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1K | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1L | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1M | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1N | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1O | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 1P | 131 | -6637 | 1920 | 359 | 688 | 194 | 21732 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.84 | 0.06 | 0.59 | 0.00 | 0.00 | 16.8 |
| 2 | 131 | -10330 | 2672 | 516 | 924 | 270 | 32533 | 9.24 | 4.62 | 12.32 | 3.08 | 6 | 0.96 | 0.08 | 0.77 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1B | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1C | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1D | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1E | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1F | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1G | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1H | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1I | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1J | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1K | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1L | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1M | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1N | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1O | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 1P | 163 | -6637 | 1181 | 359 | 688 | 77 | 22238 | 9.24 | 3.08 | 9.24 | 3.08 | 2 | 0.86 | 0.05 | 0.52 | 0.00 | 0.00 | 16.8 |
| 2 | 163 | -10330 | 1586 | 516 | 924 | 102 | 33227 | 9.24 | 4.62 | 12.32 | 3.08 | 6 | 0.98 | 0.07 | 0.68 | 0.00 | 0.00 | 16.8 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1B | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1C | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1D | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1E | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1F | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1G | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1H | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1I | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1J | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1K | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1L | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1M | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1N | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1O | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 1P | 196 | -6637 | 442 | 359 | 688 | -40 | 22502 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.88 | 0.04 | 0.46 | 0.00 | 0.00 | 16.8 |
| 2 | 196 | -10330 | 499 | 516 | 924 | -66 | 33567 | 4.62 | 9.24 | 12.32 | 3.08 | 2 | 0.99 | 0.05 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1B | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1C | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1D | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1E | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1F | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1G | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1H | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1I | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1J | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1K | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1L | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1M | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1N | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1O | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 1P | 228 | -6637 | -296 | 359 | 688 | -157 | 22526 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.88 | 0.04 | 0.45 | 0.00 | 0.00 | 16.8 |
| 2 | 228 | -10330 | -588 | 516 | 924 | -235 | 33552 | 4.62 | 9.24 | 12.32 | 3.08 | 6 | 0.99 | 0.05 | 0.62 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1B | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1D | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1E | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1F | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1G | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1H | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1I | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1J | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1K | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1L | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1M | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1N | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1O | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 1P | 261 | -6637 | -1035 | 359 | 688 | -274 | 22308 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.87 | 0.05 | 0.51 | 0.00 | 0.00 | 16.8 |
| 2 | 261 | -10330 | -1675 | 516 | 924 | -403 | 33183 | 4.62 | 9.24 | 12.32 | 3.08 | 5 | 0.98 | 0.07 | 0.69 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1B | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1C | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1D | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1E | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1F | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1G | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1H | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1I | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1J | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1K | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1L | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1M | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1N | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1O | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1P | 294 | -6637 | -1773 | 359 | 688 | -391 | 21849 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.85 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 2 | 294 | -10330 | -2761 | 516 | 924 | -571 | 32459 | 4.62 | 9.24 | 12.32 | 3.08 | 4 | 0.95 | 0.08 | 0.77 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1B | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1C | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1D | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1E | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1F | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1G | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1H | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1I | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1J | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1K | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1L | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1M | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1N | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1O | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 1P | 326 | -6637 | -2512 | 359 | 688 | -508 | 21150 | 3.08 | 9.24 | 9.24 | 3.08 | 4 | 0.98 | 0.06 | 0.65 | 0.00 | 0.00 | 16.8 |
| 2 | 326 | -10330 | -3848 | 516 | 924 | -740 | 31380 | 4.62 | 9.24 | 12.32 | 3.08 | 4 | 0.92 | 0.09 | 0.86 | 0.00 | 0.00 | 16.8 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 48**  NI 16161  NF 16275  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.4080  5.3856  24.7936  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1B | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1C | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1D | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1E | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1F | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1G | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1H | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1I | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1J | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1K | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1L | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1M | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1N | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1O | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 1P | 0 | -6692 | -7692 | 465 | -593 | 619 | 21600 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 1.00 | 0.12 | 1.08 | 3.20 | 0.34 | 16.8 |
| 2 | 0 | -10430 | -11750 | 581 | -967 | 761 | 32060 | 9.24 | 4.62 | 12.32 | 3.08 | 4 | 0.94 | 0.18 | 1.50 | 4.89 | 0.56 | 16.7 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  staffe= 2 d  8 / 16.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1B | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1C | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1E | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1F | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1G | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1H | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1I | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1J | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1K | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1L | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1M | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1N | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1O | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 1P | 34 | -6692 | -8466 | 465 | -593 | 460 | 18838 | 9.24 | 3.08 | 9.24 | 3.08 | 4 | 0.86 | 0.13 | 1.15 | 3.53 | 0.34 | 16.8 |
| 2 | 34 | -10430 | -12889 | 581 | -967 | 562 | 27848 | 9.24 | 4.62 | 10.78 | 3.08 | 4 | 0.91 | 0.20 | 1.63 | 5.37 | 0.56 | 15.5 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= --  staffe= 2 d  8 / 15.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1B | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1C | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1D | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1E | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1F | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1G | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1H | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1I | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1J | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1K | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1L | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1M | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1N | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1O | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 1P | 68 | -6692 | -9240 | 465 | -593 | 301 | 15811 | 9.24 | 3.08 | 9.24 | 3.08 | 5 | 0.87 | 0.14 | 1.29 | 3.85 | 0.34 | 16.8 |
| 2 | 68 | -10430 | -14028 | 581 | -967 | 363 | 23246 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.86 | 0.21 | 1.77 | 5.84 | 0.56 | 14.4 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1B | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1C | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1D | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1E | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1F | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1G | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1H | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1I | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1J | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1K | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1L | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1M | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1N | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1O | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 1P | 103 | -6692 | -10013 | 465 | -593 | 142 | 12519 | 9.24 | 3.08 | 9.24 | 3.08 | 6 | 0.88 | 0.15 | 1.45 | 4.17 | 0.34 | 16.8 |
| 2 | 103 | -10430 | -15167 | 581 | -967 | 165 | 18256 | 9.24 | 4.62 | 9.24 | 3.08 | 6 | 0.95 | 0.22 | 2.03 | 6.32 | 0.56 | 13.5 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  staffe= 2 d  8 / 13.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1B | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1C | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1D | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1E | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1F | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1G | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1H | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1I | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1J | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1K | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1L | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1M | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1N | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1O | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 1P | 137 | -6692 | -10787 | 465 | -593 | -17 | 8963 | 3.08 | 9.24 | 9.24 | 3.08 | 2 | 0.86 | 0.16 | 1.69 | 4.49 | 0.34 | 16.8 |
| 2 | 137 | -10430 | -16306 | 581 | -967 | -34 | 12876 | 4.62 | 9.24 | 9.24 | 3.08 | 2 | 0.81 | 0.24 | 2.27 | 6.79 | 0.56 | 12.7 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  staffe= 2 d  8 / 12.7  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1B | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1C | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1D | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1E | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1F | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1G | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1H | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1I | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1J | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1K | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1L | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1M | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1N | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1O | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 1P | 171 | -6692 | -11561 | 465 | -593 | -176 | 5142 | 3.08 | 9.24 | 9.24 | 3.08 | 6 | 0.38 | 0.16 | 1.78 | 4.81 | 0.34 | 16.8 |
| 2 | 171 | -10430 | -17445 | 581 | -967 | -233 | 7106 | 4.62 | 9.24 | 9.24 | 3.08 | 6 | 0.48 | 0.25 | 2.60 | 7.26 | 0.56 | 12.0 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 12.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1B | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1C | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1D | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1E | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1F | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1G | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1H | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1I | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1J | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1K | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1L | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1M | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1N | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1O | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 1P | 205 | -6692 | -12335 | 465 | -593 | -335 | 1057 | 3.08 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.17 | 1.88 | 5.14 | 0.34 | 16.8 |
| 2 | 205 | -10430 | -18584 | 581 | -967 | -432 | 948 | 4.62 | 9.24 | 9.24 | 3.08 | 5 | 0.03 | 0.26 | 2.73 | 7.74 | 0.56 | 11.4 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- staffe= 2 d 8 / 11.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1B | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1C | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1D | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1E | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1F | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1G | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1H | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1I | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1J | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1K | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1L | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1M | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1N | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1O | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 1P | 239 | -6692 | -13109 | 465 | -593 | -494 | -3293 | 3.08 | 9.24 | 3.08 | 9.24 | 4 | 0.16 | 0.18 | 1.97 | 5.46 | 0.34 | 16.4 |
| 2 | 239 | -10430 | -19723 | 581 | -967 | -631 | -5600 | 4.62 | 9.24 | 3.08 | 9.24 | 4 | 0.30 | 0.28 | 3.18 | 8.21 | 0.56 | 10.8 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 staffe= 2 d 8 / 10.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1B | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1C | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1D | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1E | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1F | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1G | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1H | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1I | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1J | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1K | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1L | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1M | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1N | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1O | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 1P | 273 | -6692 | -13882 | 465 | -593 | -653 | -7907 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.72 | 0.19 | 2.07 | 5.78 | 0.34 | 11.2 |
| 2 | 273 | -10430 | -20862 | 581 | -967 | -829 | -12538 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.78 | 0.29 | 3.33 | 8.69 | 0.56 | 10.3 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 10.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1B | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1C | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1D | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1E | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1F | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1G | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1H | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1I | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1J | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1K | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1L | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1M | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1N | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1O | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 1P | 308 | -6692 | -14656 | 465 | -593 | -812 | -12786 | 3.08 | 9.24 | 4.62 | 9.24 | 4 | 0.90 | 0.20 | 2.16 | 6.10 | 0.34 | 11.2 |
| 2 | 308 | -10430 | -22001 | 581 | -967 | -1028 | -19864 | 4.62 | 9.24 | 4.62 | 9.24 | 4 | 0.85 | 0.30 | 3.48 | 9.16 | 0.56 | 9.8 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 staffe= 2 d 8 / 9.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1B | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1C | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1D | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1E | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1F | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1G | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1H | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1I | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1J | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1K | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1M | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1N | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1O | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 1P | 342 | -6692 | -15430 | 465 | -593 | -971 | -17930 | 3.08 | 9.24 | 4.62 | 9.24 | 3 | 0.81 | 0.21 | 2.26 | 6.43 | 0.34 | 11.2 |
| 2 | 342 | -10430 | -23140 | 581 | -967 | -1227 | -27580 | 4.62 | 9.24 | 6.16 | 10.78 | 4 | 0.90 | 0.31 | 3.63 | 9.64 | 0.56 | 9.4 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 staffe= 2 d 8 / 9.4 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 49** NI 15537 NF 16161 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.0425 5.6610 21.7035 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1B | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1C | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1D | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1E | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1F | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1G | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1H | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1I | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1J | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1K | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1L | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1M | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1N | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1O | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 1P | 0 | -1760 | 5152 | -312 | 431 | -454 | -4557 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.99 | 0.23 | 2.25 | 3.88 | 0.66 | 9.3 |
| 2 | 0 | -2755 | 7754 | -423 | 688 | -609 | -6953 | 4.62 | 4.62 | 3.08 | 6.16 | 2 | 0.77 | 0.36 | 3.54 | 5.85 | 1.06 | 9.3 |

apost= 1.54 aant= 1.54 ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1B | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1C | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1D | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1E | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1F | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1G | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1H | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1I | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1J | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1K | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1L | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1M | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1N | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1O | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 1P | 37 | -1760 | 4434 | -312 | 431 | -339 | -2786 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.58 | 0.21 | 2.08 | 3.34 | 0.66 | 9.3 |
| 2 | 37 | -2755 | 6670 | -423 | 688 | -452 | -4288 | 4.62 | 4.62 | 3.08 | 4.62 | 3 | 0.89 | 0.33 | 3.28 | 5.03 | 1.06 | 9.3 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1B | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1C | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1D | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1E | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1F | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1G | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1H | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1I | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1J | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1K | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1L | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1M | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1N | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1O | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 1P | 74 | -1760 | 3716 | -312 | 431 | -223 | -1281 | 3.08 | 4.62 | 3.08 | 4.62 | 3 | 0.23 | 0.19 | 1.91 | 2.80 | 0.66 | 22.3 |
| 2 | 74 | -2755 | 5586 | -423 | 688 | -296 | -2024 | 4.62 | 4.62 | 3.08 | 4.62 | 4 | 0.36 | 0.30 | 3.01 | 4.21 | 1.06 | 15.9 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 15.9 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1B | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1C | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1D | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1E | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1F | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1G | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1H | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1I | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1J | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1K | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1L | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1N | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1O | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 1P | 111 | -1760 | 2997 | -312 | 431 | -108 | -41 | 3.08 | 4.62 | 3.08 | 4.62 | 6 | 0.01 | 0.17 | 1.74 | 2.26 | 0.66 | 22.3 |
| 2 | 111 | -2755 | 4501 | -423 | 688 | -140 | -161 | 4.62 | 4.62 | 3.08 | 4.62 | 4 | 0.02 | 0.27 | 2.75 | 3.39 | 1.06 | 18.2 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 18.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1B | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1C | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1D | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1E | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1F | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1G | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1H | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1I | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1J | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1K | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1L | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1M | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1N | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1O | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 1P | 148 | -1760 | 2279 | -312 | 431 | 7 | 934 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.15 | 1.52 | 1.72 | 0.66 | 22.3 |
| 2 | 148 | -2755 | 3417 | -423 | 688 | 17 | 1302 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.20 | 0.23 | 2.36 | 2.58 | 1.06 | 21.4 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 21.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1B | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1C | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1D | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1E | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1F | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1G | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1H | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1I | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1J | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1K | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1L | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1M | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1N | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1O | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 1P | 185 | -1760 | 1561 | -312 | 431 | 123 | 1644 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.31 | 0.13 | 1.36 | 1.18 | 0.66 | 22.3 |
| 2 | 185 | -2755 | 2333 | -423 | 688 | 173 | 2364 | 4.62 | 4.62 | 4.62 | 3.08 | 4 | 0.44 | 0.20 | 2.13 | 1.76 | 1.06 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1B | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1C | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1D | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1E | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1F | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1G | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1H | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1I | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1J | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1K | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1L | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1M | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1N | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1O | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 1P | 222 | -1760 | 843 | -312 | 431 | 238 | 2088 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.41 | 0.11 | 1.21 | 0.64 | 0.66 | 22.3 |
| 2 | 222 | -2755 | 1249 | -423 | 688 | 329 | 3026 | 4.62 | 4.62 | 4.62 | 3.08 | 3 | 0.59 | 0.17 | 1.91 | 0.94 | 1.06 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1B | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1C | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1D | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1E | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1F | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1G | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1H | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1I | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1J | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1K | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1L | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1M | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1N | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1O | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 1P | 259 | -1760 | 125 | -312 | 431 | 353 | 2267 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.46 | 0.10 | 1.10 | 0.32 | 0.66 | 22.3 |
| 2 | 259 | -2755 | 165 | -423 | 688 | 486 | 3287 | 4.62 | 4.62 | 4.62 | 3.08 | 3 | 0.65 | 0.15 | 1.74 | 0.44 | 1.06 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1B | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1C | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1D | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1E | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1F | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1H | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1I | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1J | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1K | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1L | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1M | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1N | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1O | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 1P | 296 | -1760 | -594 | -312 | 431 | 469 | 2180 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.44 | 0.10 | 1.16 | 0.45 | 0.66 | 22.3 |
| 2 | 296 | -2755 | -920 | -423 | 688 | 642 | 3148 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.62 | 0.17 | 1.84 | 0.69 | 1.06 | 22.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1B | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1C | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1D | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1E | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1F | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1G | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1H | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1I | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1J | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1K | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1L | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1M | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1N | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1O | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 1P | 333 | -1760 | -1312 | -312 | 431 | 584 | 1828 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.35 | 0.12 | 1.31 | 0.99 | 0.66 | 9.3 |
| 2 | 333 | -2755 | -2004 | -423 | 688 | 798 | 2608 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.50 | 0.20 | 2.06 | 1.51 | 1.06 | 9.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1B | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1C | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1D | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1E | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1F | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1G | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1H | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1I | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1J | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1K | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1L | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1M | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1N | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1O | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 1P | 369 | -1760 | -2030 | -312 | 431 | 699 | 1211 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.21 | 0.14 | 1.46 | 1.53 | 0.66 | 9.3 |
| 2 | 369 | -2755 | -3088 | -423 | 688 | 954 | 1667 | 4.62 | 4.62 | 4.62 | 3.08 | 2 | 0.28 | 0.23 | 2.29 | 2.33 | 1.06 | 9.3 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 50**  NI 16161  NF 16165  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.5490  5.4468  20.9958  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice resistenza | | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -1654 | 3150 | -256 | -20 | -428 | -70 | 3.08 | 4.62 | 3.08 | 4.62 | 5 | 0.07 | 0.09 | 0.79 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -2689 | 4815 | -330 | 9 | -546 | -223 | 3.08 | 4.62 | 3.08 | 4.62 | 4 | 0.08 | 0.14 | 1.20 | 3.63 | 0.01 | 9.3 |

apost= --  aant= 1.54 ainf= --  asup= 1.54 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | -1654 | 2481 | -256 | -20 | -337 | 930 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.15 | 0.07 | 0.58 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -2689 | 3807 | -330 | 9 | -429 | 1308 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.20 | 0.11 | 0.81 | 0.00 | 0.00 | 9.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | -1654 | 1813 | -256 | -20 | -246 | 1693 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.33 | 0.06 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | -2689 | 2798 | -330 | 9 | -311 | 2481 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.47 | 0.08 | 0.60 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | -1654 | 1144 | -256 | -20 | -155 | 2219 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | -2689 | 1790 | -330 | 9 | -194 | 3296 | 3.08 | 4.62 | 4.62 | 3.08 | 4 | 0.66 | 0.05 | 0.39 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | -1654 | 476 | -256 | -20 | -64 | 2506 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.52 | 0.02 | 0.15 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | -2689 | 781 | -330 | 9 | -77 | 3753 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.76 | 0.02 | 0.18 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | -1654 | -192 | -256 | -20 | 27 | 2557 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | -2689 | -228 | -330 | 9 | 41 | 3851 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.79 | 0.01 | 0.10 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d  8 / 22.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1J | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | -1654 | -861 | -256 | -20 | 118 | 2370 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.48 | 0.03 | 0.23 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | -2689 | -1236 | -330 | 9 | 158 | 3591 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.73 | 0.04 | 0.28 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | -1654 | -1529 | -256 | -20 | 209 | 1945 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.39 | 0.05 | 0.38 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | -2689 | -2244 | -330 | 9 | 275 | 2973 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.58 | 0.06 | 0.49 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | -1654 | -2198 | -256 | -20 | 301 | 1283 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.23 | 0.07 | 0.52 | 0.00 | 0.00 | 22.3 |
| 2 | 284 | -2689 | -3253 | -330 | 9 | 393 | 1996 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.36 | 0.09 | 0.70 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1B | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1C | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1D | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1E | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1F | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1G | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1H | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1I | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1J | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1K | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1L | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1M | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1N | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1O | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 1P | 320 | -1654 | -2867 | -256 | -20 | 392 | 383 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.06 | 0.08 | 0.66 | 0.00 | 0.00 | 9.3 |
| 2 | 320 | -2689 | -4262 | -330 | 9 | 510 | 661 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.07 | 0.12 | 0.90 | 0.00 | 0.00 | 9.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1B | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1C | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1D | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1E | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1F | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1G | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1H | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1I | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1J | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1K | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1L | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1M | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1N | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1O | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 355 | -1654 | -3535 | -256 | -20 | 483 | -755 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.88 | 0.00 | 0.00 | 9.3 |
| 2 | 355 | -2689 | -5270 | -330 | 9 | 627 | -1032 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.14 | 0.15 | 1.31 | 3.97 | 0.01 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 61** NI 15543 NF 16159 SEZ. Rp B= 40.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.0000 13.0425 5.6610 22.7035 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | Fx,M | Bielle | V,Mx | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | | | | cmq/m | | cm |
| 1A | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1B | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1C | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1D | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1E | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1F | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1G | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1H | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1I | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1J | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1K | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1L | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1M | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1N | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1O | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 1P | 0 | -436 | 3235 | -498 | -416 | -775 | -1060 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.23 | 0.12 | 1.15 | 2.44 | 0.45 | 9.3 |
| 2 | 0 | -928 | 5179 | -706 | -613 | -1097 | -2156 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.46 | 0.18 | 1.78 | 3.91 | 0.67 | 9.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1B | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1C | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1D | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1E | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1F | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1G | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1H | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1I | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1J | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1K | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1L | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1M | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1N | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1O | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 1P | 37 | -436 | 2480 | -498 | -416 | -591 | -4 | 3.08 | 6.16 | 3.08 | 6.16 | 6 | 0.12 | 0.10 | 1.02 | 1.87 | 0.45 | 9.3 |
| 2 | 37 | -928 | 4047 | -706 | -613 | -836 | -452 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.16 | 0.16 | 1.58 | 3.05 | 0.67 | 9.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1B | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1C | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1D | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1E | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1F | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1G | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1H | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1I | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1J | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1K | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1L | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1M | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1N | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1O | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 1P | 74 | -436 | 1725 | -498 | -416 | -407 | 772 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.09 | 0.89 | 0.00 | 0.00 | 16.8 |
| 2 | 74 | -928 | 2914 | -706 | -613 | -575 | 834 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.16 | 0.14 | 1.39 | 2.20 | 0.67 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1B | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1C | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1D | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1E | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1F | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1G | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1H | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1I | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1J | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1K | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1L | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1M | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1N | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1O | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |
| 1P | 111 | -436 | 970 | -498 | -416 | -222 | 1270 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.28 | 0.07 | 0.77 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 111 | -928 | 1782 | -706 | -613 | -315 | 1701 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.35 | 0.11 | 1.19 | 1.34 | 0.67 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1B | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1C | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1D | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1E | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1F | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1G | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1H | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1I | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1J | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1K | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1L | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1M | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1N | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1O | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1P | 148 | -436 | 215 | -498 | -416 | -38 | 1489 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.33 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 2 | 148 | -928 | 650 | -706 | -613 | -54 | 2150 | 3.08 | 6.16 | 6.16 | 3.08 | 2 | 0.46 | 0.09 | 1.01 | 0.53 | 0.67 | 16.8 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1B | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1C | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1D | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1E | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1F | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1G | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1H | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1I | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1J | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1K | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1L | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1M | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1N | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1O | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 1P | 185 | -436 | -541 | -498 | -416 | 146 | 1428 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.31 | 0.06 | 0.69 | 0.00 | 0.00 | 16.8 |
| 2 | 185 | -928 | -482 | -706 | -613 | 207 | 2181 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.47 | 0.09 | 1.01 | 0.53 | 0.67 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1B | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1C | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1D | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1E | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1F | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1G | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1H | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1I | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1J | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1K | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1L | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1M | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1N | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1O | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 1P | 222 | -436 | -1296 | -498 | -416 | 330 | 1089 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.23 | 0.08 | 0.82 | 0.00 | 0.00 | 16.8 |
| 2 | 222 | -928 | -1615 | -706 | -613 | 468 | 1794 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.38 | 0.11 | 1.17 | 1.22 | 0.67 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1B | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1C | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1D | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1E | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1F | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1G | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1H | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1I | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1J | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1K | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1L | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1M | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1N | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1O | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 1P | 259 | -436 | -2051 | -498 | -416 | 514 | 471 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.10 | 0.09 | 0.95 | 0.00 | 0.00 | 16.8 |
| 2 | 259 | -928 | -2747 | -706 | -613 | 729 | 988 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.19 | 0.13 | 1.36 | 2.07 | 0.67 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1B | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1C | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1D | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1E | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1F | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1G | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1H | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1I | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1J | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1L | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1M | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1N | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1O | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 1P | 296 | -436 | -2806 | -498 | -416 | 698 | -427 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.14 | 0.11 | 1.08 | 2.12 | 0.45 | 16.8 |
| 2 | 296 | -928 | -3879 | -706 | -613 | 989 | -236 | 6.16 | 3.08 | 3.08 | 6.16 | 3 | 0.19 | 0.16 | 1.55 | 2.93 | 0.67 | 16.8 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1B | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1C | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1D | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1E | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1F | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1G | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1H | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1I | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1J | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1K | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1L | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1M | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1N | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1O | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 1P | 333 | -436 | -3561 | -498 | -416 | 882 | -1603 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.35 | 0.13 | 1.21 | 2.69 | 0.45 | 9.3 |
| 2 | 333 | -928 | -5012 | -706 | -613 | 1250 | -1878 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.40 | 0.18 | 1.75 | 3.78 | 0.67 | 9.3 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1B | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1C | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1D | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1E | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1F | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1G | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1H | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1I | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1J | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1K | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1L | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1M | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1N | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1O | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 1P | 369 | -436 | -4316 | -498 | -416 | 1066 | -2411 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.54 | 0.14 | 1.33 | 3.25 | 0.45 | 9.3 |
| 2 | 369 | -928 | -6144 | -706 | -613 | 1511 | -3017 | 6.16 | 3.08 | 3.08 | 6.16 | 2 | 0.66 | 0.21 | 1.94 | 4.63 | 0.67 | 9.3 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 62** NI 16159 NF 16163 SEZ. Rp B= 40.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.0000 7.2090 5.4468 16.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -1362 | 3451 | -380 | 165 | -547 | -2098 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.43 | 0.09 | 0.84 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -2769 | 5501 | -487 | 162 | -686 | -3265 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.64 | 0.14 | 1.22 | 4.15 | 0.18 | 9.3 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 1P | 36 | -1362 | 2937 | -380 | 165 | -412 | -1481 | 3.08 | 6.16 | 3.08 | 6.16 | 2 | 0.29 | 0.08 | 0.75 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -2769 | 4693 | -487 | 162 | -513 | -2279 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.41 | 0.12 | 1.08 | 3.54 | 0.18 | 9.3 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 9.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1B | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1C | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1D | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1E | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1F | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1G | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1H | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1I | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1J | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1K | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1L | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1M | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1N | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1O | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 1P | 71 | -1362 | 2422 | -380 | 165 | -277 | -529 | 3.08 | 6.16 | 3.08 | 6.16 | 3 | 0.07 | 0.07 | 0.66 | 0.00 | 0.00 | 16.8 |
| 2 | 71 | -2769 | 3885 | -487 | 162 | -340 | -755 | 3.08 | 6.16 | 3.08 | 6.16 | 4 | 0.07 | 0.10 | 0.93 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= --  asup= 3.08 staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1B | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1C | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1D | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1E | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1F | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1G | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1H | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1I | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1J | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1K | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1L | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1M | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1N | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1O | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 1P | 107 | -1362 | 1908 | -380 | 165 | -143 | 240 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.02 | 0.06 | 0.57 | 0.00 | 0.00 | 16.8 |
| 2 | 107 | -2769 | 3077 | -487 | 162 | -167 | 481 | 3.08 | 6.16 | 6.16 | 3.08 | 4 | 0.03 | 0.08 | 0.77 | 0.00 | 0.00 | 16.8 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1B | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1C | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1D | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1E | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1F | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1G | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1H | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1I | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1J | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1K | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1L | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1M | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1N | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1O | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 1P | 142 | -1362 | 1393 | -380 | 165 | -8 | 826 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.14 | 0.05 | 0.48 | 0.00 | 0.00 | 16.8 |
| 2 | 142 | -2769 | 2269 | -487 | 162 | 6 | 1431 | 3.08 | 3.08 | 6.16 | 3.08 | 2 | 0.22 | 0.07 | 0.63 | 0.00 | 0.00 | 16.8 |

apost= --  aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1B | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1C | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1D | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1E | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1F | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1G | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1H | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1I | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1J | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1K | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1L | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1M | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1N | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1O | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 1P | 178 | -1362 | 879 | -380 | 165 | 127 | 1230 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.23 | 0.04 | 0.39 | 0.00 | 0.00 | 16.8 |
| 2 | 178 | -2769 | 1461 | -487 | 162 | 178 | 2094 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.37 | 0.05 | 0.49 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  staffe= 2 d  8 / 16.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1B | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1C | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1D | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1E | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1G | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1H | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1I | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1J | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1K | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1L | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1M | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1N | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1O | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1P | 213 | -1362 | 365 | -380 | 165 | 262 | 1451 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.28 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 2 | 213 | -2769 | 653 | -487 | 162 | 351 | 2469 | 6.16 | 3.08 | 6.16 | 3.08 | 4 | 0.46 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1B | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1C | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1D | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1E | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1F | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1G | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1H | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1I | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1J | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1K | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1L | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1M | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1N | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1O | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 1P | 249 | -1362 | -150 | -380 | 165 | 397 | 1489 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.29 | 0.03 | 0.31 | 0.00 | 0.00 | 16.8 |
| 2 | 249 | -2769 | -155 | -487 | 162 | 524 | 2557 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.48 | 0.03 | 0.32 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1B | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1C | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1D | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1E | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1F | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1G | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1H | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1I | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1J | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1K | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1L | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1M | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1N | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1O | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 1P | 284 | -1362 | -664 | -380 | 165 | 532 | 1344 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.26 | 0.03 | 0.35 | 0.00 | 0.00 | 16.8 |
| 2 | 284 | -2769 | -963 | -487 | 162 | 697 | 2359 | 6.16 | 3.08 | 6.16 | 3.08 | 3 | 0.43 | 0.04 | 0.40 | 0.00 | 0.00 | 16.8 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 16.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1B | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1C | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1D | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1E | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1F | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1G | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1H | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1I | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1J | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1K | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1L | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1M | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1N | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1O | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 1P | 320 | -1362 | -1179 | -380 | 165 | 667 | 1017 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.18 | 0.05 | 0.44 | 0.00 | 0.00 | 9.3 |
| 2 | 320 | -2769 | -1771 | -487 | 162 | 870 | 1873 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.32 | 0.06 | 0.54 | 0.00 | 0.00 | 9.3 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1B | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1C | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1D | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1E | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1F | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1G | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1H | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1I | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1J | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1K | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1L | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1M | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1N | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1O | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 1P | 355 | -1362 | -1693 | -380 | 165 | 802 | 507 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.13 | 0.06 | 0.53 | 0.00 | 0.00 | 9.3 |
| 2 | 355 | -2769 | -2579 | -487 | 162 | 1043 | 1100 | 6.16 | 3.08 | 6.16 | 3.08 | 2 | 0.15 | 0.07 | 0.68 | 0.00 | 0.00 | 9.3 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 69** NI 15548 NF 16158 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.0425 5.6610 21.7035 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1B | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1C | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1D | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1E | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1F | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1G | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1H | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1I | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1J | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1K | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1L | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1M | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1N | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1O | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 1P | 0 | -802 | 3758 | -372 | 79 | -597 | -1855 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.40 | 0.12 | 1.05 | 2.83 | 0.12 | 9.3 |
| 2 | 0 | -1318 | 5760 | -539 | 53 | -867 | -3028 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.65 | 0.17 | 1.47 | 4.34 | 0.08 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1B | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1C | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1D | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1E | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1F | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1G | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1H | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1I | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1J | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1K | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1L | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1M | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1N | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1O | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 1P | 37 | -802 | 3040 | -372 | 79 | -460 | -599 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.11 | 0.10 | 0.89 | 0.00 | 0.00 | 9.3 |
| 2 | 37 | -1318 | 4676 | -539 | 53 | -668 | -1100 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.20 | 0.14 | 1.22 | 3.53 | 0.08 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1B | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1C | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1D | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1E | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1F | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1G | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1H | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1I | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1J | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1K | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1L | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1M | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1N | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1O | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 1P | 74 | -802 | 2322 | -372 | 79 | -322 | 391 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.07 | 0.08 | 0.70 | 0.00 | 0.00 | 22.3 |
| 2 | 74 | -1318 | 3592 | -539 | 53 | -469 | 427 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.10 | 0.11 | 0.90 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 111 | -802 | 1603 | -372 | 79 | -185 | 1116 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.23 | 0.06 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 111 | -1318 | 2507 | -539 | 53 | -270 | 1554 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.31 | 0.08 | 0.67 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1B | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1C | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1D | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1E | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1F | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1G | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1H | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1I | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1J | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1K | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1L | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1M | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1N | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1O | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 1P | 148 | -802 | 885 | -372 | 79 | -48 | 1576 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.33 | 0.04 | 0.38 | 0.00 | 0.00 | 22.3 |
| 2 | 148 | -1318 | 1423 | -539 | 53 | -71 | 2280 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.48 | 0.05 | 0.43 | 0.00 | 0.00 | 22.3 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1B | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1C | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1D | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1E | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1F | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1G | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1H | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1I | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1J | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1K | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1L | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1M | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1N | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1O | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 1P | 185 | -802 | 167 | -372 | 79 | 90 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.38 | 0.03 | 0.27 | 0.00 | 0.00 | 22.3 |
| 2 | 185 | -1318 | 339 | -539 | 53 | 128 | 2606 | 4.62 | 3.08 | 4.62 | 3.08 | 4 | 0.55 | 0.03 | 0.24 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1B | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1C | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1D | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1E | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1F | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1G | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1H | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1I | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1J | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1K | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1L | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1M | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1N | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1O | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 1P | 222 | -802 | -551 | -372 | 79 | 227 | 1699 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.36 | 0.03 | 0.31 | 0.00 | 0.00 | 22.3 |
| 2 | 222 | -1318 | -745 | -539 | 53 | 327 | 2531 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.53 | 0.03 | 0.29 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1B | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1C | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1D | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1E | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1F | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1G | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1H | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1I | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1J | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1K | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1L | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1M | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1N | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1O | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 1P | 259 | -802 | -1269 | -372 | 79 | 364 | 1363 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.28 | 0.05 | 0.47 | 0.00 | 0.00 | 22.3 |
| 2 | 259 | -1318 | -1829 | -539 | 53 | 526 | 2055 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.42 | 0.06 | 0.52 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1B | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1C | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1D | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1E | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1F | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1G | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1H | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1I | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1J | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1K | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1L | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1M | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1N | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 1P | 296 | -802 | -1988 | -372 | 79 | 501 | 761 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.14 | 0.07 | 0.62 | 0.00 | 0.00 | 22.3 |
| 2 | 296 | -1318 | -2914 | -539 | 53 | 725 | 1179 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.22 | 0.09 | 0.76 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1B | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1C | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1D | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1E | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1F | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1G | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1H | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1I | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1J | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1K | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1L | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1M | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1N | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1O | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 1P | 333 | -802 | -2706 | -372 | 79 | 639 | -106 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.17 | 0.09 | 0.81 | 0.00 | 0.00 | 9.3 |
| 2 | 333 | -1318 | -3998 | -539 | 53 | 924 | -98 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.24 | 0.12 | 1.06 | 3.01 | 0.08 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1B | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1C | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1D | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1E | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1F | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1G | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1H | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1I | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1J | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1K | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1L | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1M | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1N | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1O | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 1P | 369 | -802 | -3424 | -372 | 79 | 776 | -1238 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.26 | 0.11 | 0.97 | 0.00 | 0.00 | 9.3 |
| 2 | 369 | -1318 | -5082 | -539 | 53 | 1123 | -1775 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.36 | 0.15 | 1.31 | 3.83 | 0.08 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 70** NI 16158 NF 16162 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1B | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1C | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1D | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1E | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1F | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1G | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1H | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1I | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1J | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1K | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1L | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1M | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1N | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1O | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 1P | 0 | -834 | 2291 | -352 | -148 | -620 | -1136 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.23 | 0.09 | 0.88 | 0.00 | 0.00 | 9.3 |
| 2 | 0 | -1358 | 3626 | -491 | -248 | -862 | -1682 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.34 | 0.15 | 1.44 | 2.73 | 0.38 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1B | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1C | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1D | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1E | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1F | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1G | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1H | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1I | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1J | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1K | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1L | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1M | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1N | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 1O | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1P | 36 | -834 | 1812 | -352 | -148 | -495 | -407 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.12 | 0.08 | 0.77 | 0.00 | 0.00 | 9.3 |
| 2 | 36 | -1358 | 2864 | -491 | -248 | -688 | -529 | 3.08 | 4.62 | 3.08 | 4.62 | 2 | 0.17 | 0.13 | 1.26 | 2.16 | 0.38 | 9.3 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1B | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1C | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1D | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1E | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1F | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1G | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1H | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1I | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1J | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1K | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1L | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1M | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1N | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1O | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 1P | 71 | -834 | 1333 | -352 | -148 | -369 | 152 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.09 | 0.07 | 0.65 | 0.00 | 0.00 | 22.3 |
| 2 | 71 | -1358 | 2102 | -491 | -248 | -514 | 353 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.11 | 0.11 | 1.05 | 1.59 | 0.38 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1B | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1C | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1D | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1E | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1F | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1G | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1H | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1I | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1J | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1K | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1L | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1M | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1N | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1O | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 1P | 107 | -834 | 855 | -352 | -148 | -244 | 541 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.09 | 0.05 | 0.54 | 0.00 | 0.00 | 22.3 |
| 2 | 107 | -1358 | 1340 | -491 | -248 | -339 | 965 | 3.08 | 4.62 | 4.62 | 3.08 | 2 | 0.17 | 0.09 | 0.88 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1B | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1C | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1D | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1E | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1F | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1G | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1H | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1I | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1J | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1K | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1L | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1M | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1N | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1O | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 1P | 142 | -834 | 376 | -352 | -148 | -119 | 759 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.14 | 0.04 | 0.44 | 0.00 | 0.00 | 22.3 |
| 2 | 142 | -1358 | 578 | -491 | -248 | -165 | 1305 | 3.08 | 4.62 | 4.62 | 3.08 | 3 | 0.25 | 0.07 | 0.72 | 0.00 | 0.00 | 22.3 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1B | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1C | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1D | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1E | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1F | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1G | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1H | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1I | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1J | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1K | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1L | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1M | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1N | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1O | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 1P | 178 | -834 | -103 | -352 | -148 | 6 | 808 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.15 | 0.04 | 0.43 | 0.00 | 0.00 | 22.3 |
| 2 | 178 | -1358 | -184 | -491 | -248 | 9 | 1375 | 3.08 | 3.08 | 4.62 | 3.08 | 2 | 0.27 | 0.06 | 0.70 | 0.00 | 0.00 | 22.3 |

apost= -- aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1B | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1C | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1D | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1E | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1F | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1G | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1H | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1I | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1K | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1L | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1M | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1N | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1O | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 1P | 213 | -834 | -582 | -352 | -148 | 131 | 686 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.13 | 0.05 | 0.48 | 0.00 | 0.00 | 22.3 |
| 2 | 213 | -1358 | -945 | -491 | -248 | 184 | 1175 | 4.62 | 3.08 | 4.62 | 3.08 | 3 | 0.22 | 0.08 | 0.80 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1B | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1C | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1D | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1E | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1F | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1G | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1H | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1I | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1J | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1K | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1L | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1M | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1N | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1O | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 1P | 249 | -834 | -1061 | -352 | -148 | 257 | 394 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.06 | 0.06 | 0.59 | 0.00 | 0.00 | 22.3 |
| 2 | 249 | -1358 | -1707 | -491 | -248 | 358 | 704 | 4.62 | 3.08 | 4.62 | 3.08 | 2 | 0.11 | 0.10 | 0.96 | 0.00 | 0.00 | 22.3 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1B | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1C | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1D | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1E | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1F | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1G | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1H | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1I | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1J | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1K | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1L | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1M | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1N | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1O | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 1P | 284 | -834 | -1539 | -352 | -148 | 382 | -68 | 4.62 | 3.08 | 3.08 | 4.62 | 4 | 0.09 | 0.07 | 0.71 | 0.00 | 0.00 | 22.3 |
| 2 | 284 | -1358 | -2469 | -491 | -248 | 532 | -38 | 4.62 | 3.08 | 3.08 | 4.62 | 6 | 0.12 | 0.12 | 1.17 | 1.86 | 0.38 | 22.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 22.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1B | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1C | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1D | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1E | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1F | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1G | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1H | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1I | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1J | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1K | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1L | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1M | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1N | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1O | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 1P | 320 | -834 | -2018 | -352 | -148 | 507 | -700 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.13 | 0.09 | 0.82 | 0.00 | 0.00 | 9.3 |
| 2 | 320 | -1358 | -3231 | -491 | -248 | 707 | -1051 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.19 | 0.14 | 1.35 | 2.44 | 0.38 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1B | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1C | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1D | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1E | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1F | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1G | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1H | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1I | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1J | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1K | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1L | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1M | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1N | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1O | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 1P | 355 | -834 | -2497 | -352 | -148 | 632 | -1502 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.32 | 0.10 | 0.93 | 0.00 | 0.00 | 9.3 |
| 2 | 355 | -1358 | -3993 | -491 | -248 | 881 | -2334 | 4.62 | 3.08 | 3.08 | 4.62 | 2 | 0.49 | 0.16 | 1.53 | 3.01 | 0.38 | 9.3 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **56** Tabella: **Tabella travi**
Descrizione: **Travi scala 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Verifica in ottemperanza alle NTC2008
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 23** NI 17606 NF 16184 SEZ. Rp B= 20.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 2.0000 10.2375 9.1800 21.4175 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -7 | 2608 | 36 | 0 | 53 | -1916 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1B | 0 | -7 | 2610 | 36 | 0 | 53 | -1918 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1C | 0 | -7 | 2608 | -36 | 0 | -53 | -1916 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1D | 0 | -7 | 2610 | -36 | 0 | -53 | -1918 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1E | 0 | 7 | 2608 | 36 | 0 | 53 | -1916 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1F | 0 | 7 | 2610 | 36 | 0 | 53 | -1918 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1G | 0 | 7 | 2608 | -36 | 0 | -53 | -1916 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1H | 0 | 7 | 2610 | -36 | 0 | -53 | -1918 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1I | 0 | -17 | 2607 | 83 | 0 | 122 | -1914 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1J | 0 | -17 | 2611 | 83 | 0 | 122 | -1920 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1K | 0 | -17 | 2607 | -83 | 0 | -122 | -1914 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1L | 0 | -17 | 2611 | -83 | 0 | -122 | -1920 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1M | 0 | 17 | 2607 | 83 | 0 | 122 | -1914 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1N | 0 | 17 | 2611 | 83 | 0 | 122 | -1920 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 1O | 0 | 17 | 2607 | -83 | 0 | -122 | -1914 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.87 | 0.00 | 0.00 | 29.6 |
| 1P | 0 | 17 | 2611 | -83 | 0 | -122 | -1920 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.45 | 0.11 | 0.88 | 0.00 | 0.00 | 29.6 |
| 2 | 0 | -0 | 4363 | -0 | 0 | 0 | -3207 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.75 | 0.19 | 1.28 | 3.29 | 0.00 | 29.6 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 29.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 15 | -7 | 2347 | 36 | 0 | 47 | -1552 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1B | 15 | -7 | 2349 | 36 | 0 | 47 | -1554 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1C | 15 | -7 | 2347 | -36 | 0 | -47 | -1552 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1D | 15 | -7 | 2349 | -36 | 0 | -47 | -1554 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1E | 15 | 7 | 2347 | 36 | 0 | 47 | -1552 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1F | 15 | 7 | 2349 | 36 | 0 | 47 | -1554 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1G | 15 | 7 | 2347 | -36 | 0 | -47 | -1552 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1H | 15 | 7 | 2349 | -36 | 0 | -47 | -1554 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1I | 15 | -17 | 2346 | 83 | 0 | 110 | -1550 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1J | 15 | -17 | 2350 | 83 | 0 | 110 | -1555 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1K | 15 | -17 | 2346 | -83 | 0 | -110 | -1550 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1L | 15 | -17 | 2350 | -83 | 0 | -110 | -1555 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1M | 15 | 17 | 2346 | 83 | 0 | 110 | -1550 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1N | 15 | 17 | 2350 | 83 | 0 | 110 | -1555 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.37 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1O | 15 | 17 | 2346 | -83 | 0 | -110 | -1550 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.36 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 1P | 15 | 17 | 2350 | -83 | 0 | -110 | -1555 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.37 | 0.10 | 0.79 | 0.00 | 0.00 | 29.6 |
| 2 | 15 | -0 | 3927 | -0 | 0 | -0 | -2598 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.61 | 0.17 | 1.15 | 2.96 | 0.00 | 29.6 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 29.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 29 | -7 | 2086 | 36 | 0 | 42 | -1226 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1B | 29 | -7 | 2088 | 36 | 0 | 42 | -1228 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1C | 29 | -7 | 2086 | -36 | 0 | -42 | -1226 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1D | 29 | -7 | 2088 | -36 | 0 | -42 | -1228 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1E | 29 | 7 | 2086 | 36 | 0 | 42 | -1226 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1F | 29 | 7 | 2088 | 36 | 0 | 42 | -1228 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1G | 29 | 7 | 2086 | -36 | 0 | -42 | -1226 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1H | 29 | 7 | 2088 | -36 | 0 | -42 | -1228 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1I | 29 | -17 | 2085 | 83 | 0 | 98 | -1225 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1J | 29 | -17 | 2089 | 83 | 0 | 98 | -1229 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1K | 29 | -17 | 2085 | -83 | 0 | -98 | -1225 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1L | 29 | -17 | 2089 | -83 | 0 | -98 | -1229 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1M | 29 | 17 | 2085 | 83 | 0 | 98 | -1225 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1N | 29 | 17 | 2089 | 83 | 0 | 98 | -1229 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1O | 29 | 17 | 2085 | -83 | 0 | -98 | -1225 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 1P | 29 | 17 | 2089 | -83 | 0 | -98 | -1229 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.09 | 0.70 | 0.00 | 0.00 | 29.6 |
| 2 | 29 | -0 | 3490 | -0 | 0 | -0 | -2053 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.48 | 0.15 | 1.03 | 2.63 | 0.00 | 29.6 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 29.6 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -7 | 1826 | 36 | 0 | 37 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1B | 44 | -7 | 1827 | 36 | 0 | 37 | -940 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1C | 44 | -7 | 1826 | -36 | 0 | -37 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1D | 44 | -7 | 1827 | -36 | 0 | -37 | -940 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1E | 44 | 7 | 1826 | 36 | 0 | 37 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1F | 44 | 7 | 1827 | 36 | 0 | 37 | -940 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1G | 44 | 7 | 1826 | -36 | 0 | -37 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1H | 44 | 7 | 1827 | -36 | 0 | -37 | -940 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1I | 44 | -17 | 1824 | 83 | 0 | 85 | -937 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1J | 44 | -17 | 1828 | 83 | 0 | 85 | -941 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 44 | -17 | 1824 | -83 | 0 | -85 | -937 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1L | 44 | -17 | 1828 | -83 | 0 | -85 | -941 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1M | 44 | 17 | 1824 | 83 | 0 | 85 | -937 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1N | 44 | 17 | 1828 | 83 | 0 | 85 | -941 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1O | 44 | 17 | 1824 | -83 | 0 | -85 | -937 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 1P | 44 | 17 | 1828 | -83 | 0 | -85 | -941 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.22 | 0.08 | 0.61 | 0.00 | 0.00 | 29.6 |
| 2 | 44 | -0 | 3054 | -0 | 0 | -0 | -1572 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.37 | 0.13 | 0.90 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -7 | 1565 | 36 | 0 | 32 | -689 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1B | 59 | -7 | 1566 | 36 | 0 | 32 | -691 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1C | 59 | -7 | 1565 | -36 | 0 | -32 | -689 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1D | 59 | -7 | 1566 | -36 | 0 | -32 | -691 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1E | 59 | 7 | 1565 | 36 | 0 | 32 | -689 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1F | 59 | 7 | 1566 | 36 | 0 | 32 | -691 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1G | 59 | 7 | 1565 | -36 | 0 | -32 | -689 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1H | 59 | 7 | 1566 | -36 | 0 | -32 | -691 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1I | 59 | -17 | 1564 | 83 | 0 | 73 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1J | 59 | -17 | 1567 | 83 | 0 | 73 | -692 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1K | 59 | -17 | 1564 | -83 | 0 | -73 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1L | 59 | -17 | 1567 | -83 | 0 | -73 | -692 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1M | 59 | 17 | 1564 | 83 | 0 | 73 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1N | 59 | 17 | 1567 | 83 | 0 | 73 | -692 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 1O | 59 | 17 | 1564 | -83 | 0 | -73 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.52 | 0.00 | 0.00 | 29.6 |
| 1P | 59 | 17 | 1567 | -83 | 0 | -73 | -692 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.16 | 0.07 | 0.53 | 0.00 | 0.00 | 29.6 |
| 2 | 59 | -0 | 2618 | -0 | 0 | -0 | -1155 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.27 | 0.11 | 0.77 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -7 | 1304 | 36 | 0 | 26 | -479 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1B | 74 | -7 | 1305 | 36 | 0 | 26 | -480 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1C | 74 | -7 | 1304 | -36 | 0 | -26 | -479 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1D | 74 | -7 | 1305 | -36 | 0 | -26 | -480 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1E | 74 | 7 | 1304 | 36 | 0 | 26 | -479 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1F | 74 | 7 | 1305 | 36 | 0 | 26 | -480 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1G | 74 | 7 | 1304 | -36 | 0 | -26 | -479 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1H | 74 | 7 | 1305 | -36 | 0 | -26 | -480 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1I | 74 | -17 | 1303 | 83 | 0 | 61 | -478 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1J | 74 | -17 | 1306 | 83 | 0 | 61 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1K | 74 | -17 | 1303 | -83 | 0 | -61 | -478 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1L | 74 | -17 | 1306 | -83 | 0 | -61 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1M | 74 | 17 | 1303 | 83 | 0 | 61 | -478 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1N | 74 | 17 | 1306 | 83 | 0 | 61 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1O | 74 | 17 | 1303 | -83 | 0 | -61 | -478 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 1P | 74 | 17 | 1306 | -83 | 0 | -61 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 29.6 |
| 2 | 74 | -0 | 2182 | 0 | 0 | -0 | -802 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.19 | 0.09 | 0.64 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -7 | 1043 | 36 | 0 | 21 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1B | 88 | -7 | 1044 | 36 | 0 | 21 | -307 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1C | 88 | -7 | 1043 | -36 | 0 | -21 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1D | 88 | -7 | 1044 | -36 | 0 | -21 | -307 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1E | 88 | 7 | 1043 | 36 | 0 | 21 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1F | 88 | 7 | 1044 | 36 | 0 | 21 | -307 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1G | 88 | 7 | 1043 | -36 | 0 | -21 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1H | 88 | 7 | 1044 | -36 | 0 | -21 | -307 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1I | 88 | -17 | 1042 | 83 | 0 | 49 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1J | 88 | -17 | 1045 | 83 | 0 | 49 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1K | 88 | -17 | 1042 | -83 | 0 | -49 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1L | 88 | -17 | 1045 | -83 | 0 | -49 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1M | 88 | 17 | 1042 | 83 | 0 | 49 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1N | 88 | 17 | 1045 | 83 | 0 | 49 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1O | 88 | 17 | 1042 | -83 | 0 | -49 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 1P | 88 | 17 | 1045 | -83 | 0 | -49 | -308 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.04 | 0.35 | 0.00 | 0.00 | 29.6 |
| 2 | 88 | -0 | 1745 | -0 | 0 | -0 | -513 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.12 | 0.07 | 0.51 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -7 | 782 | 36 | 0 | 16 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1B | 103 | -7 | 783 | 36 | 0 | 16 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1C | 103 | -7 | 782 | -36 | 0 | -16 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1D | 103 | -7 | 783 | -36 | 0 | -16 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1E | 103 | 7 | 782 | 36 | 0 | 16 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1F | 103 | 7 | 783 | 36 | 0 | 16 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1G | 103 | 7 | 782 | -36 | 0 | -16 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1H | 103 | 7 | 783 | -36 | 0 | -16 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1I | 103 | -17 | 781 | 83 | 0 | 37 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1J | 103 | -17 | 785 | 83 | 0 | 37 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1K | 103 | -17 | 781 | -83 | 0 | -37 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1L | 103 | -17 | 785 | -83 | 0 | -37 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1M | 103 | 17 | 781 | 83 | 0 | 37 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1N | 103 | 17 | 785 | 83 | 0 | 37 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1O | 103 | 17 | 781 | -83 | 0 | -37 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 1P | 103 | 17 | 785 | -83 | 0 | -37 | -173 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.03 | 0.26 | 0.00 | 0.00 | 29.6 |
| 2 | 103 | -0 | 1309 | -0 | 0 | -0 | -289 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.06 | 0.38 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -7 | 521 | 36 | 0 | 11 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1B | 118 | -7 | 523 | 36 | 0 | 11 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 1C | 118 | -7 | 521 | -36 | 0 | -11 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1D | 118 | -7 | 523 | -36 | 0 | -11 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 118 | 7 | 521 | 36 | 0 | 11 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1F | 118 | 7 | 523 | 36 | 0 | 11 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 1G | 118 | 7 | 521 | -36 | 0 | -11 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1H | 118 | 7 | 523 | -36 | 0 | -11 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 1I | 118 | -17 | 520 | 83 | 0 | 24 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1J | 118 | -17 | 524 | 83 | 0 | 24 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 1K | 118 | -17 | 520 | -83 | 0 | -24 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1L | 118 | -17 | 524 | -83 | 0 | -24 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 1M | 118 | 17 | 520 | 83 | 0 | 24 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1N | 118 | 17 | 524 | 83 | 0 | 24 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 1O | 118 | 17 | 520 | -83 | 0 | -24 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 29.6 |
| 1P | 118 | 17 | 524 | -83 | 0 | -24 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.02 | 0.18 | 0.00 | 0.00 | 29.6 |
| 2 | 118 | -0 | 873 | -0 | 0 | -0 | -128 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.04 | 0.26 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 132 | -7 | 260 | 36 | 0 | 5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1B | 132 | -7 | 262 | 36 | 0 | 5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1C | 132 | -7 | 260 | -36 | 0 | -5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1D | 132 | -7 | 262 | -36 | 0 | -5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1E | 132 | 7 | 260 | 36 | 0 | 5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1F | 132 | 7 | 262 | 36 | 0 | 5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1G | 132 | 7 | 260 | -36 | 0 | -5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1H | 132 | 7 | 262 | -36 | 0 | -5 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1I | 132 | -17 | 259 | 83 | 0 | 12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1J | 132 | -17 | 263 | 83 | 0 | 12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1K | 132 | -17 | 259 | -83 | 0 | -12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1L | 132 | -17 | 263 | -83 | 0 | -12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1M | 132 | 17 | 259 | 83 | 0 | 12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1N | 132 | 17 | 263 | 83 | 0 | 12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1O | 132 | 17 | 259 | -83 | 0 | -12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1P | 132 | 17 | 263 | -83 | 0 | -12 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 2 | 132 | -0 | 436 | -0 | 0 | -0 | -32 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.02 | 0.13 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -7 | -1 | 36 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1B | 147 | -7 | 1 | 36 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1C | 147 | -7 | -1 | -36 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1D | 147 | -7 | 1 | -36 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1E | 147 | 7 | -1 | 36 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1F | 147 | 7 | 1 | 36 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1G | 147 | 7 | -1 | -36 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1H | 147 | 7 | 1 | -36 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1I | 147 | -17 | -2 | 83 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1J | 147 | -17 | 2 | 83 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1K | 147 | -17 | -2 | -83 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1L | 147 | -17 | 2 | -83 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1M | 147 | 17 | -2 | 83 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1N | 147 | 17 | 2 | 83 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1O | 147 | 17 | -2 | -83 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1P | 147 | 17 | 2 | -83 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 2 | 147 | -0 | -0 | 0 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 24**  NI 17603  NF 16185  SEZ.  Rp  B= 20.0  H= 40.0  (trave)

categoria: p.p. y qy tot.
qy medio:  2.0000  2.0000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | 294 | 4 | 0 | 6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1B | 0 | -0 | 294 | 4 | 0 | 6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1C | 0 | -0 | 294 | -4 | 0 | -6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1D | 0 | -0 | 294 | -4 | 0 | -6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1E | 0 | 0 | 294 | 4 | 0 | 6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1F | 0 | 0 | 294 | 4 | 0 | 6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1G | 0 | 0 | 294 | -4 | 0 | -6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1H | 0 | 0 | 294 | -4 | 0 | -6 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1I | 0 | -0 | 294 | 9 | 0 | 14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1J | 0 | -0 | 294 | 9 | 0 | 14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1K | 0 | -0 | 294 | -9 | 0 | -14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1L | 0 | -0 | 294 | -9 | 0 | -14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1M | 0 | 0 | 294 | 9 | 0 | 14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1N | 0 | 0 | 294 | 9 | 0 | 14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1O | 0 | 0 | 294 | -9 | 0 | -14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 1P | 0 | 0 | 294 | -9 | 0 | -14 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |
| 2 | 0 | -0 | 382 | -0 | 0 | 0 | -281 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.02 | 0.11 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 15 | -0 | 265 | 4 | 0 | 5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1B | 15 | -0 | 265 | 4 | 0 | 5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1C | 15 | -0 | 265 | -4 | 0 | -5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1D | 15 | -0 | 265 | -4 | 0 | -5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1E | 15 | 0 | 265 | 4 | 0 | 5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 15 | 0 | 265 | 4 | 0 | 5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1G | 15 | 0 | 265 | -4 | 0 | -5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1H | 15 | 0 | 265 | -4 | 0 | -5 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1I | 15 | -0 | 265 | 9 | 0 | 12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1J | 15 | -0 | 265 | 9 | 0 | 12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1K | 15 | -0 | 265 | -9 | 0 | -12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1L | 15 | -0 | 265 | -9 | 0 | -12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1M | 15 | 0 | 265 | 9 | 0 | 12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1N | 15 | 0 | 265 | 9 | 0 | 12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1O | 15 | 0 | 265 | -9 | 0 | -12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 1P | 15 | 0 | 265 | -9 | 0 | -12 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |
| 2 | 15 | -0 | 344 | -0 | 0 | -0 | -228 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 29 | -0 | 235 | 4 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1B | 29 | -0 | 235 | 4 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1C | 29 | -0 | 235 | -4 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1D | 29 | -0 | 235 | -4 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1E | 29 | 0 | 235 | 4 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1F | 29 | 0 | 235 | 4 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1G | 29 | 0 | 235 | -4 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1H | 29 | 0 | 235 | -4 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1I | 29 | -0 | 235 | 9 | 0 | 11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1J | 29 | -0 | 235 | 9 | 0 | 11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1K | 29 | -0 | 235 | -9 | 0 | -11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1L | 29 | -0 | 235 | -9 | 0 | -11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1M | 29 | 0 | 235 | 9 | 0 | 11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1N | 29 | 0 | 235 | 9 | 0 | 11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1O | 29 | 0 | 235 | -9 | 0 | -11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 1P | 29 | 0 | 235 | -9 | 0 | -11 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |
| 2 | 29 | -0 | 306 | -0 | 0 | -0 | -180 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | 206 | 4 | 0 | 4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1B | 44 | -0 | 206 | 4 | 0 | 4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1C | 44 | -0 | 206 | -4 | 0 | -4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1D | 44 | -0 | 206 | -4 | 0 | -4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1E | 44 | 0 | 206 | 4 | 0 | 4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1F | 44 | 0 | 206 | 4 | 0 | 4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1G | 44 | 0 | 206 | -4 | 0 | -4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1H | 44 | 0 | 206 | -4 | 0 | -4 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1I | 44 | -0 | 206 | 9 | 0 | 9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1J | 44 | -0 | 206 | 9 | 0 | 9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1K | 44 | -0 | 206 | -9 | 0 | -9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1L | 44 | -0 | 206 | -9 | 0 | -9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1M | 44 | 0 | 206 | 9 | 0 | 9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1N | 44 | 0 | 206 | 9 | 0 | 9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1O | 44 | 0 | 206 | -9 | 0 | -9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 1P | 44 | 0 | 206 | -9 | 0 | -9 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |
| 2 | 44 | -0 | 268 | 0 | 0 | -0 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -0 | 176 | 4 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1B | 59 | -0 | 176 | 4 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1C | 59 | -0 | 176 | -4 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1D | 59 | -0 | 176 | -4 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1E | 59 | 0 | 176 | 4 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1F | 59 | 0 | 176 | 4 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1G | 59 | 0 | 176 | -4 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1H | 59 | 0 | 176 | -4 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1I | 59 | -0 | 176 | 9 | 0 | 8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1J | 59 | -0 | 176 | 9 | 0 | 8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1K | 59 | -0 | 176 | -9 | 0 | -8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1L | 59 | -0 | 176 | -9 | 0 | -8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1M | 59 | 0 | 176 | 9 | 0 | 8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1N | 59 | 0 | 176 | 9 | 0 | 8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1O | 59 | 0 | 176 | -9 | 0 | -8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 1P | 59 | 0 | 176 | -9 | 0 | -8 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |
| 2 | 59 | -0 | 229 | -0 | 0 | -0 | -101 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -0 | 147 | 4 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1B | 74 | -0 | 147 | 4 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1C | 74 | -0 | 147 | -4 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1D | 74 | -0 | 147 | -4 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1E | 74 | 0 | 147 | 4 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1F | 74 | 0 | 147 | 4 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1G | 74 | 0 | 147 | -4 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1H | 74 | 0 | 147 | -4 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1I | 74 | -0 | 147 | 9 | 0 | 7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1J | 74 | -0 | 147 | 9 | 0 | 7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1K | 74 | -0 | 147 | -9 | 0 | -7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1L | 74 | -0 | 147 | -9 | 0 | -7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1M | 74 | 0 | 147 | 9 | 0 | 7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1N | 74 | 0 | 147 | 9 | 0 | 7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1O | 74 | 0 | 147 | -9 | 0 | -7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 1P | 74 | 0 | 147 | -9 | 0 | -7 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.05 | 0.00 | 0.00 | 29.6 |
| 2 | 74 | -0 | 191 | 0 | 0 | -0 | -70 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | 118 | 4 | 0 | 2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1B | 88 | -0 | 118 | 4 | 0 | 2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1C | 88 | -0 | 118 | -4 | 0 | -2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1D | 88 | -0 | 118 | -4 | 0 | -2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1E | 88 | 0 | 118 | 4 | 0 | 2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1F | 88 | 0 | 118 | 4 | 0 | 2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1G | 88 | 0 | 118 | -4 | 0 | -2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1H | 88 | 0 | 118 | -4 | 0 | -2 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1I | 88 | -0 | 118 | 9 | 0 | 5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1J | 88 | -0 | 118 | 9 | 0 | 5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1K | 88 | -0 | 118 | -9 | 0 | -5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1L | 88 | -0 | 118 | -9 | 0 | -5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1M | 88 | 0 | 118 | 9 | 0 | 5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1N | 88 | 0 | 118 | 9 | 0 | 5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1O | 88 | 0 | 118 | -9 | 0 | -5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 1P | 88 | 0 | 118 | -9 | 0 | -5 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |
| 2 | 88 | -0 | 153 | 0 | 0 | -0 | -45 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 88 | 4 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1B | 103 | -0 | 88 | 4 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1C | 103 | -0 | 88 | -4 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1D | 103 | -0 | 88 | -4 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1E | 103 | 0 | 88 | 4 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1F | 103 | 0 | 88 | 4 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1G | 103 | 0 | 88 | -4 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1H | 103 | 0 | 88 | -4 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1I | 103 | -0 | 88 | 9 | 0 | 4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1J | 103 | -0 | 88 | 9 | 0 | 4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1K | 103 | -0 | 88 | -9 | 0 | -4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1L | 103 | -0 | 88 | -9 | 0 | -4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1M | 103 | 0 | 88 | 9 | 0 | 4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1N | 103 | 0 | 88 | 9 | 0 | 4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1O | 103 | 0 | 88 | -9 | 0 | -4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 1P | 103 | 0 | 88 | -9 | 0 | -4 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |
| 2 | 103 | -0 | 115 | -0 | 0 | -0 | -25 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -0 | 59 | 4 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1B | 118 | -0 | 59 | 4 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1C | 118 | -0 | 59 | -4 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1D | 118 | -0 | 59 | -4 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1E | 118 | 0 | 59 | 4 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1F | 118 | 0 | 59 | 4 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1G | 118 | 0 | 59 | -4 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1H | 118 | 0 | 59 | -4 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1I | 118 | -0 | 59 | 9 | 0 | 3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1J | 118 | -0 | 59 | 9 | 0 | 3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1K | 118 | -0 | 59 | -9 | 0 | -3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1L | 118 | -0 | 59 | -9 | 0 | -3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1M | 118 | 0 | 59 | 9 | 0 | 3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1N | 118 | 0 | 59 | 9 | 0 | 3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1O | 118 | 0 | 59 | -9 | 0 | -3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 1P | 118 | 0 | 59 | -9 | 0 | -3 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |
| 2 | 118 | -0 | 76 | -0 | 0 | -0 | -11 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 132 | -0 | 29 | 4 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1B | 132 | -0 | 29 | 4 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1C | 132 | -0 | 29 | -4 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1D | 132 | -0 | 29 | -4 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1E | 132 | 0 | 29 | 4 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1F | 132 | 0 | 29 | 4 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1G | 132 | 0 | 29 | -4 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1H | 132 | 0 | 29 | -4 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1I | 132 | -0 | 29 | 9 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1J | 132 | -0 | 29 | 9 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1K | 132 | -0 | 29 | -9 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1L | 132 | -0 | 29 | -9 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1M | 132 | 0 | 29 | 9 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1N | 132 | 0 | 29 | 9 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1O | 132 | 0 | 29 | -9 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 1P | 132 | 0 | 29 | -9 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |
| 2 | 132 | -0 | 38 | -0 | 0 | -0 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 29.6 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -0 | -0 | 4 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1B | 147 | -0 | 0 | 4 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1C | 147 | -0 | -0 | -4 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1D | 147 | -0 | 0 | -4 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1E | 147 | 0 | -0 | 4 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1F | 147 | 0 | 0 | 4 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1G | 147 | 0 | -0 | -4 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1H | 147 | 0 | 0 | -4 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1I | 147 | -0 | -0 | 9 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1J | 147 | -0 | 0 | 9 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1K | 147 | -0 | -0 | -9 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1L | 147 | -0 | 0 | -9 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1M | 147 | 0 | -0 | 9 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 147 | 0 | 0 | 9 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1O | 147 | 0 | -0 | -9 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 1P | 147 | 0 | 0 | -9 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.6 |
| 2 | 147 | -0 | 0 | 0 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 1 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | -- |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 29.6  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **56** Tabella: **Travi scala**
Descrizione: **Travi scala 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 19** NI 17608 NF 17664 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | 3670 | 1265 | 0 | 327 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1B | 0 | -0 | 3952 | 1265 | 0 | 327 | -1796 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.16 | 5.51 | 0.00 | 5.0 |
| 1C | 0 | -0 | 3670 | -501 | 0 | -176 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1D | 0 | -0 | 3952 | -501 | 0 | -176 | -1796 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.16 | 5.51 | 0.00 | 5.0 |
| 1E | 0 | -0 | 3670 | 1265 | 0 | 327 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1F | 0 | -0 | 3952 | 1265 | 0 | 327 | -1796 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.16 | 5.51 | 0.00 | 5.0 |
| 1G | 0 | -0 | 3670 | -501 | 0 | -176 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.19 | 1.08 | 5.12 | 0.00 | 5.0 |
| 1H | 0 | -0 | 3952 | -501 | 0 | -176 | -1796 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.16 | 5.51 | 0.00 | 5.0 |
| 1I | 0 | -0 | 3484 | 2426 | 0 | 658 | -1050 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.18 | 1.02 | 4.86 | 0.00 | 5.0 |
| 1J | 0 | -0 | 4138 | 2426 | 0 | 658 | -2092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.92 | 0.22 | 1.21 | 5.77 | 0.00 | 5.0 |
| 1K | 0 | -0 | 3484 | -1662 | 0 | -507 | -1050 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.18 | 1.02 | 4.86 | 0.00 | 5.0 |
| 1L | 0 | -0 | 4138 | -1662 | 0 | -507 | -2092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.92 | 0.22 | 1.21 | 5.77 | 0.00 | 5.0 |
| 1M | 0 | -0 | 3484 | 2426 | 0 | 658 | -1050 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.18 | 1.02 | 4.86 | 0.00 | 5.0 |
| 1N | 0 | -0 | 4138 | 2426 | 0 | 658 | -2092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.92 | 0.22 | 1.21 | 5.77 | 0.00 | 5.0 |
| 1O | 0 | -0 | 3484 | -1662 | 0 | -507 | -1050 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.18 | 1.02 | 4.86 | 0.00 | 5.0 |
| 1P | 0 | -0 | 4138 | -1662 | 0 | -507 | -2092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.92 | 0.22 | 1.21 | 5.77 | 0.00 | 5.0 |
| 2 | 0 | -0 | 6178 | 650 | 0 | 127 | -2490 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.74 | 0.32 | 1.58 | 8.62 | 0.00 | 5.0 |
| apost= -- aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 10 | -0 | 3501 | 1265 | 0 | 202 | -991 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1B | 10 | -0 | 3784 | 1265 | 0 | 202 | -1413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.11 | 5.28 | 0.00 | 5.0 |
| 1C | 10 | -0 | 3501 | -501 | 0 | -127 | -991 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1D | 10 | -0 | 3784 | -501 | 0 | -127 | -1413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.11 | 5.28 | 0.00 | 5.0 |
| 1E | 10 | -0 | 3501 | 1265 | 0 | 202 | -991 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1F | 10 | -0 | 3784 | 1265 | 0 | 202 | -1413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.11 | 5.28 | 0.00 | 5.0 |
| 1G | 10 | -0 | 3501 | -501 | 0 | -127 | -991 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.18 | 1.03 | 4.88 | 0.00 | 5.0 |
| 1H | 10 | -0 | 3784 | -501 | 0 | -127 | -1413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.11 | 5.28 | 0.00 | 5.0 |
| 1I | 10 | -0 | 3315 | 2426 | 0 | 418 | -714 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1J | 10 | -0 | 3969 | 2426 | 0 | 418 | -1690 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.21 | 1.16 | 5.54 | 0.00 | 5.0 |
| 1K | 10 | -0 | 3315 | -1662 | 0 | -343 | -714 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1L | 10 | -0 | 3969 | -1662 | 0 | -343 | -1690 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.21 | 1.16 | 5.54 | 0.00 | 5.0 |
| 1M | 10 | -0 | 3315 | 2426 | 0 | 418 | -714 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1N | 10 | -0 | 3969 | 2426 | 0 | 418 | -1690 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.21 | 1.16 | 5.54 | 0.00 | 5.0 |
| 1O | 10 | -0 | 3315 | -1662 | 0 | -343 | -714 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1P | 10 | -0 | 3969 | -1662 | 0 | -343 | -1690 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.21 | 1.16 | 5.54 | 0.00 | 5.0 |
| 2 | 10 | -0 | 5900 | 650 | 0 | 63 | -1892 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.83 | 0.31 | 1.73 | 8.23 | 0.00 | 5.0 |
| apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 20 | -0 | 3332 | 1265 | 0 | 77 | -653 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1B | 20 | -0 | 3615 | 1265 | 0 | 77 | -1047 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1C | 20 | -0 | 3332 | -501 | 0 | -77 | -653 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1D | 20 | -0 | 3615 | -501 | 0 | -77 | -1047 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1E | 20 | -0 | 3332 | 1265 | 0 | 77 | -653 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1F | 20 | -0 | 3615 | 1265 | 0 | 77 | -1047 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1G | 20 | -0 | 3332 | -501 | 0 | -77 | -653 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.17 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1H | 20 | -0 | 3615 | -501 | 0 | -77 | -1047 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1I | 20 | -0 | 3146 | 2426 | 0 | 178 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.17 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1J | 20 | -0 | 3801 | 2426 | 0 | 178 | -1306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.20 | 1.11 | 5.30 | 0.00 | 5.0 |
| 1K | 20 | -0 | 3146 | -1662 | 0 | -178 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.17 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1L | 20 | -0 | 3801 | -1662 | 0 | -178 | -1306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.20 | 1.11 | 5.30 | 0.00 | 5.0 |
| 1M | 20 | -0 | 3146 | 2426 | 0 | 178 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.17 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1N | 20 | -0 | 3801 | 2426 | 0 | 178 | -1306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.20 | 1.11 | 5.30 | 0.00 | 5.0 |
| 1O | 20 | -0 | 3146 | -1662 | 0 | -178 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.17 | 0.92 | 0.00 | 0.00 | 5.0 |
| 1P | 20 | -0 | 3801 | -1662 | 0 | -178 | -1306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.20 | 1.11 | 5.30 | 0.00 | 5.0 |
| 2 | 20 | -0 | 5623 | 650 | 0 | -2 | -1322 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.30 | 1.65 | 7.84 | 0.00 | 5.0 |
| apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | | | | | |
| 1A | 30 | -0 | 3163 | 1265 | 0 | -48 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1B | 30 | -0 | 3446 | 1265 | 0 | -48 | -697 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.01 | 4.81 | 0.00 | 5.0 |
| 1C | 30 | -0 | 3163 | -501 | 0 | -27 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1D | 30 | -0 | 3446 | -501 | 0 | -27 | -697 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.01 | 4.81 | 0.00 | 5.0 |
| 1E | 30 | -0 | 3163 | 1265 | 0 | -48 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1F | 30 | -0 | 3446 | 1265 | 0 | -48 | -697 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.01 | 4.81 | 0.00 | 5.0 |
| 1G | 30 | -0 | 3163 | -501 | 0 | -27 | -331 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1H | 30 | -0 | 3446 | -501 | 0 | -27 | -697 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.01 | 4.81 | 0.00 | 5.0 |
| 1I | 30 | -0 | 2977 | 2426 | 0 | -62 | -91 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1J | 30 | -0 | 3632 | 2426 | 0 | -62 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 30 | -0 | 2977 | -1662 | 0 | -13 | -91 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1L | 30 | -0 | 3632 | -1662 | 0 | -13 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 1M | 30 | -0 | 2977 | 2426 | 0 | -62 | -91 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1N | 30 | -0 | 3632 | 2426 | 0 | -62 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 1O | 30 | -0 | 2977 | -1662 | 0 | -13 | -91 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |
| 1P | 30 | -0 | 3632 | -1662 | 0 | -13 | -938 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.19 | 1.07 | 5.07 | 0.00 | 5.0 |
| 2 | 30 | -0 | 5345 | 650 | 0 | -66 | -779 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.28 | 1.57 | 7.46 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | -0 | 2994 | 1265 | 0 | -174 | -27 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1B | 40 | -0 | 3277 | 1265 | 0 | -174 | -365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1C | 40 | -0 | 2994 | -501 | 0 | 22 | -27 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.01 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1D | 40 | -0 | 3277 | -501 | 0 | 22 | -365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1E | 40 | -0 | 2994 | 1265 | 0 | -174 | -27 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1F | 40 | -0 | 3277 | 1265 | 0 | -174 | -365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1G | 40 | -0 | 2994 | -501 | 0 | 22 | -27 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.01 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1H | 40 | -0 | 3277 | -501 | 0 | 22 | -365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1I | 40 | -0 | 2809 | 2426 | 0 | -302 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.15 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 40 | -0 | 3463 | 2426 | 0 | -302 | -587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.18 | 1.02 | 4.83 | 0.00 | 16.0 |
| 1K | 40 | -0 | 2809 | -1662 | 0 | 151 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 1L | 40 | -0 | 3463 | -1662 | 0 | 151 | -587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.18 | 1.02 | 4.83 | 0.00 | 16.0 |
| 1M | 40 | -0 | 2809 | 2426 | 0 | -302 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.15 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 40 | -0 | 3463 | 2426 | 0 | -302 | -587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.18 | 1.02 | 4.83 | 0.00 | 16.0 |
| 1O | 40 | -0 | 2809 | -1662 | 0 | 151 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 1P | 40 | -0 | 3463 | -1662 | 0 | 151 | -587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.18 | 1.02 | 4.83 | 0.00 | 16.0 |
| 2 | 40 | -0 | 5068 | 650 | 0 | -130 | -263 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.27 | 1.49 | 7.07 | 0.00 | 14.2 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 50 | -0 | 2826 | 1265 | 0 | -299 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1B | 50 | -0 | 3108 | 1265 | 0 | -299 | -49 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1C | 50 | -0 | 2826 | -501 | 0 | 72 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1D | 50 | -0 | 3108 | -501 | 0 | 72 | -49 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1E | 50 | -0 | 2826 | 1265 | 0 | -299 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1F | 50 | -0 | 3108 | 1265 | 0 | -299 | -49 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1G | 50 | -0 | 2826 | -501 | 0 | 72 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1H | 50 | -0 | 3108 | -501 | 0 | 72 | -49 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.02 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1I | 50 | -0 | 2640 | 2426 | 0 | -542 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.14 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 50 | -0 | 3294 | 2426 | 0 | -542 | -252 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.17 | 0.97 | 0.00 | 0.00 | 16.0 |
| 1K | 50 | -0 | 2640 | -1662 | 0 | 316 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1L | 50 | -0 | 3294 | -1662 | 0 | 316 | -252 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.17 | 0.97 | 0.00 | 0.00 | 16.0 |
| 1M | 50 | -0 | 2640 | 2426 | 0 | -542 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.14 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 50 | -0 | 3294 | 2426 | 0 | -542 | -252 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.17 | 0.97 | 0.00 | 0.00 | 16.0 |
| 1O | 50 | -0 | 2640 | -1662 | 0 | 316 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1P | 50 | -0 | 3294 | -1662 | 0 | 316 | -252 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.17 | 0.97 | 0.00 | 0.00 | 16.0 |
| 2 | 50 | -0 | 4790 | 650 | 0 | -195 | 225 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.25 | 1.40 | 6.68 | 0.00 | 15.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 15.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -0 | 2657 | 1265 | 0 | -424 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1B | 59 | -0 | 2940 | 1265 | 0 | -424 | 251 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1C | 59 | -0 | 2657 | -501 | 0 | 122 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1D | 59 | -0 | 2940 | -501 | 0 | 122 | 251 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1E | 59 | -0 | 2657 | 1265 | 0 | -424 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1F | 59 | -0 | 2940 | 1265 | 0 | -424 | 251 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1G | 59 | -0 | 2657 | -501 | 0 | 122 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1H | 59 | -0 | 2940 | -501 | 0 | 122 | 251 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1I | 59 | -0 | 2471 | 2426 | 0 | -783 | 718 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.13 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 59 | -0 | 3125 | 2426 | 0 | -783 | 65 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.16 | 0.92 | 0.00 | 0.00 | 16.0 |
| 1K | 59 | -0 | 2471 | -1662 | 0 | 480 | 718 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1L | 59 | -0 | 3125 | -1662 | 0 | 480 | 65 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.16 | 0.92 | 0.00 | 0.00 | 16.0 |
| 1M | 59 | -0 | 2471 | 2426 | 0 | -783 | 718 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.13 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 59 | -0 | 3125 | 2426 | 0 | -783 | 65 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.16 | 0.92 | 0.00 | 0.00 | 16.0 |
| 1O | 59 | -0 | 2471 | -1662 | 0 | 480 | 718 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1P | 59 | -0 | 3125 | -1662 | 0 | 480 | 65 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.16 | 0.92 | 0.00 | 0.00 | 16.0 |
| 2 | 59 | -0 | 4512 | 650 | 0 | -259 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.24 | 1.32 | 6.29 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -0 | 2488 | 1265 | 0 | -549 | 787 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1B | 69 | -0 | 2771 | 1265 | 0 | -549 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1C | 69 | -0 | 2488 | -501 | 0 | 171 | 787 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1D | 69 | -0 | 2771 | -501 | 0 | 171 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1E | 69 | -0 | 2488 | 1265 | 0 | -549 | 787 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1F | 69 | -0 | 2771 | 1265 | 0 | -549 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1G | 69 | -0 | 2488 | -501 | 0 | 171 | 787 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1H | 69 | -0 | 2771 | -501 | 0 | 171 | 533 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1I | 69 | -0 | 2302 | 2426 | 0 | -1023 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 69 | -0 | 2957 | 2426 | 0 | -1023 | 366 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1K | 69 | -0 | 2302 | -1662 | 0 | 645 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1L | 69 | -0 | 2957 | -1662 | 0 | 645 | 366 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.16 | 0.87 | 0.00 | 0.00 | 16.0 |
| 1M | 69 | -0 | 2302 | 2426 | 0 | -1023 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 69 | -0 | 2957 | 2426 | 0 | -1023 | 366 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1O | 69 | -0 | 2302 | -1662 | 0 | 645 | 954 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1P | 69 | -0 | 2957 | -1662 | 0 | 645 | 366 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.16 | 0.87 | 0.00 | 0.00 | 16.0 |
| 2 | 69 | -0 | 4235 | 650 | 0 | -323 | 1119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.49 | 0.22 | 1.24 | 5.91 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -0 | 2319 | 1265 | 0 | -675 | 1025 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1B | 79 | -0 | 2602 | 1265 | 0 | -675 | 799 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1C | 79 | -0 | 2319 | -501 | 0 | 221 | 1025 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1D | 79 | -0 | 2602 | -501 | 0 | 221 | 799 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 79 | -0 | 2319 | 1265 | 0 | -675 | 1025 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1F | 79 | -0 | 2602 | 1265 | 0 | -675 | 799 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1G | 79 | -0 | 2319 | -501 | 0 | 221 | 1025 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1H | 79 | -0 | 2602 | -501 | 0 | 221 | 799 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1I | 79 | -0 | 2133 | 2426 | 0 | -1263 | 1174 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 79 | -0 | 2788 | 2426 | 0 | -1263 | 651 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.15 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1K | 79 | -0 | 2133 | -1662 | 0 | 809 | 1174 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1L | 79 | -0 | 2788 | -1662 | 0 | 809 | 651 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 1M | 79 | -0 | 2133 | 2426 | 0 | -1263 | 1174 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 79 | -0 | 2788 | 2426 | 0 | -1263 | 651 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.15 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1O | 79 | -0 | 2133 | -1662 | 0 | 809 | 1174 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1P | 79 | -0 | 2788 | -1662 | 0 | 809 | 651 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 2 | 79 | -0 | 3957 | 650 | 0 | -388 | 1524 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.21 | 1.16 | 5.52 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 89 | -0 | 2150 | 1265 | 0 | -800 | 1247 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1B | 89 | -0 | 2433 | 1265 | 0 | -800 | 1048 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1C | 89 | -0 | 2150 | -501 | 0 | 270 | 1247 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1D | 89 | -0 | 2433 | -501 | 0 | 270 | 1048 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1E | 89 | -0 | 2150 | 1265 | 0 | -800 | 1247 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1F | 89 | -0 | 2433 | 1265 | 0 | -800 | 1048 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1G | 89 | -0 | 2150 | -501 | 0 | 270 | 1247 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.55 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1H | 89 | -0 | 2433 | -501 | 0 | 270 | 1048 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1I | 89 | -0 | 1965 | 2426 | 0 | -1503 | 1377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 89 | -0 | 2619 | 2426 | 0 | -1503 | 918 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.14 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1K | 89 | -0 | 1965 | -1662 | 0 | 974 | 1377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.10 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1L | 89 | -0 | 2619 | -1662 | 0 | 974 | 918 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1M | 89 | -0 | 1965 | 2426 | 0 | -1503 | 1377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 89 | -0 | 2619 | 2426 | 0 | -1503 | 918 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.14 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1O | 89 | -0 | 1965 | -1662 | 0 | 974 | 1377 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.10 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1P | 89 | -0 | 2619 | -1662 | 0 | 974 | 918 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 2 | 89 | -0 | 3680 | 650 | 0 | -452 | 1902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.84 | 0.19 | 1.08 | 5.13 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 99 | -0 | 1982 | 1265 | 0 | -925 | 1451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1B | 99 | -0 | 2264 | 1265 | 0 | -925 | 1281 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1C | 99 | -0 | 1982 | -501 | 0 | 320 | 1451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1D | 99 | -0 | 2264 | -501 | 0 | 320 | 1281 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1E | 99 | -0 | 1982 | 1265 | 0 | -925 | 1451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1F | 99 | -0 | 2264 | 1265 | 0 | -925 | 1281 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1G | 99 | -0 | 1982 | -501 | 0 | 320 | 1451 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1H | 99 | -0 | 2264 | -501 | 0 | 320 | 1281 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1I | 99 | -0 | 1796 | 2426 | 0 | -1743 | 1563 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1J | 99 | -0 | 2450 | 2426 | 0 | -1743 | 1169 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.13 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1K | 99 | -0 | 1796 | -1662 | 0 | 1138 | 1563 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.09 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1L | 99 | -0 | 2450 | -1662 | 0 | 1138 | 1169 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1M | 99 | -0 | 1796 | 2426 | 0 | -1743 | 1563 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.12 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1N | 99 | -0 | 2450 | 2426 | 0 | -1743 | 1169 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.13 | 0.89 | 0.00 | 0.00 | 16.0 |
| 1O | 99 | -0 | 1796 | -1662 | 0 | 1138 | 1563 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.09 | 0.61 | 0.00 | 0.00 | 16.0 |
| 1P | 99 | -0 | 2450 | -1662 | 0 | 1138 | 1169 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 2 | 99 | -0 | 3402 | 650 | 0 | -516 | 2253 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.99 | 0.18 | 1.00 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20**  NI 17664  NF 17600  SEZ.  Rp  B= 30.0  H= 22.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.6500  10.5000  8.1600  20.3100  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | 111 | 428 | 0 | 456 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1B | 0 | -0 | 574 | 428 | 0 | 456 | 1009 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1C | 0 | -0 | 111 | -347 | 0 | -498 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1D | 0 | -0 | 574 | -347 | 0 | -498 | 1009 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1E | 0 | -0 | 111 | 428 | 0 | 456 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1F | 0 | -0 | 574 | 428 | 0 | 456 | 1009 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1G | 0 | -0 | 111 | -347 | 0 | -498 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1H | 0 | -0 | 574 | -347 | 0 | -498 | 1009 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1I | 0 | -0 | -194 | 937 | 0 | 1083 | 1534 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1J | 0 | -0 | 878 | 937 | 0 | 1083 | 800 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1K | 0 | -0 | -194 | -856 | 0 | -1125 | 1534 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1L | 0 | -0 | 878 | -856 | 0 | -1125 | 800 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1M | 0 | -0 | -194 | 937 | 0 | 1083 | 1534 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1N | 0 | -0 | 878 | 937 | 0 | 1083 | 800 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1O | 0 | -0 | -194 | -856 | 0 | -1125 | 1534 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1P | 0 | -0 | 878 | -856 | 0 | -1125 | 800 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.31 | 0.00 | 0.00 | 16.0 |
| 2 | 0 | -0 | 492 | 86 | 0 | -16 | 1966 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.86 | 0.03 | 0.14 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 21 | -0 | -239 | 428 | 0 | 368 | 1312 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1B | 21 | -0 | 224 | 428 | 0 | 368 | 1090 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1C | 21 | -0 | -239 | -347 | 0 | -427 | 1312 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1D | 21 | -0 | 224 | -347 | 0 | -427 | 1090 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1E | 21 | -0 | -239 | 428 | 0 | 368 | 1312 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 21 | -0 | 224 | 428 | 0 | 368 | 1090 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1G | 21 | -0 | -239 | -347 | 0 | -427 | 1312 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1H | 21 | -0 | 224 | -347 | 0 | -427 | 1090 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1I | 21 | -0 | -543 | 937 | 0 | 891 | 1458 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1J | 21 | -0 | 529 | 937 | 0 | 891 | 944 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1K | 21 | -0 | -543 | -856 | 0 | -950 | 1458 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1L | 21 | -0 | 529 | -856 | 0 | -950 | 944 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1M | 21 | -0 | -543 | 937 | 0 | 891 | 1458 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1N | 21 | -0 | 529 | 937 | 0 | 891 | 944 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1O | 21 | -0 | -543 | -856 | 0 | -950 | 1458 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1P | 21 | -0 | 529 | -856 | 0 | -950 | 944 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 2 | 21 | -0 | -83 | 86 | 0 | -33 | 2008 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.00 | 0.03 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | -588 | 428 | 0 | 281 | 1228 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1B | 41 | -0 | -125 | 428 | 0 | 281 | 1101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1C | 41 | -0 | -588 | -347 | 0 | -356 | 1228 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1D | 41 | -0 | -125 | -347 | 0 | -356 | 1101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1E | 41 | -0 | -588 | 428 | 0 | 281 | 1228 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1F | 41 | -0 | -125 | 428 | 0 | 281 | 1101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1G | 41 | -0 | -588 | -347 | 0 | -356 | 1228 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.54 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1H | 41 | -0 | -125 | -347 | 0 | -356 | 1101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1I | 41 | -0 | -892 | 937 | 0 | 699 | 1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1J | 41 | -0 | 179 | 937 | 0 | 699 | 1017 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1K | 41 | -0 | -892 | -856 | 0 | -774 | 1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.05 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1L | 41 | -0 | 179 | -856 | 0 | -774 | 1017 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1M | 41 | -0 | -892 | 937 | 0 | 699 | 1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1N | 41 | -0 | 179 | 937 | 0 | 699 | 1017 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1O | 41 | -0 | -892 | -856 | 0 | -774 | 1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.05 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1P | 41 | -0 | 179 | -856 | 0 | -774 | 1017 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 2 | 41 | -0 | -658 | 86 | 0 | -51 | 1932 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | -938 | 428 | 0 | 193 | 1071 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1B | 62 | -0 | -475 | 428 | 0 | 193 | 1039 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1C | 62 | -0 | -938 | -347 | 0 | -285 | 1071 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1D | 62 | -0 | -475 | -347 | 0 | -285 | 1039 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.02 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1E | 62 | -0 | -938 | 428 | 0 | 193 | 1071 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1F | 62 | -0 | -475 | 428 | 0 | 193 | 1039 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1G | 62 | -0 | -938 | -347 | 0 | -285 | 1071 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1H | 62 | -0 | -475 | -347 | 0 | -285 | 1039 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.02 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1I | 62 | -0 | -1242 | 937 | 0 | 507 | 1092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.07 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1J | 62 | -0 | -170 | 937 | 0 | 507 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1K | 62 | -0 | -1242 | -856 | 0 | -599 | 1092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.07 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1L | 62 | -0 | -170 | -856 | 0 | -599 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1M | 62 | -0 | -1242 | 937 | 0 | 507 | 1092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.07 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1N | 62 | -0 | -170 | 937 | 0 | 507 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1O | 62 | -0 | -1242 | -856 | 0 | -599 | 1092 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.07 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1P | 62 | -0 | -170 | -856 | 0 | -599 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 2 | 62 | -0 | -1232 | 86 | 0 | -69 | 1738 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -0 | -1287 | 428 | 0 | 105 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1B | 82 | -0 | -824 | 428 | 0 | 105 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1C | 82 | -0 | -1287 | -347 | 0 | -214 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1D | 82 | -0 | -824 | -347 | 0 | -214 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1E | 82 | -0 | -1287 | 428 | 0 | 105 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1F | 82 | -0 | -824 | 428 | 0 | 105 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1G | 82 | -0 | -1287 | -347 | 0 | -214 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1H | 82 | -0 | -824 | -347 | 0 | -214 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1I | 82 | -0 | -1591 | 937 | 0 | 314 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1J | 82 | -0 | -520 | 937 | 0 | 314 | 947 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1K | 82 | -0 | -1591 | -856 | 0 | -424 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1L | 82 | -0 | -520 | -856 | 0 | -424 | 947 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1M | 82 | -0 | -1591 | 937 | 0 | 314 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1N | 82 | -0 | -520 | 937 | 0 | 314 | 947 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1O | 82 | -0 | -1591 | -856 | 0 | -424 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1P | 82 | -0 | -520 | -856 | 0 | -424 | 947 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.04 | 0.31 | 0.00 | 0.00 | 16.0 |
| 2 | 82 | -0 | -1807 | 86 | 0 | -86 | 1427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.63 | 0.09 | 0.53 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | -1636 | 428 | 0 | 17 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.09 | 0.48 | 0.00 | 0.00 | 16.0 |
| 1B | 103 | -0 | -1173 | 428 | 0 | 17 | 701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1C | 103 | -0 | -1636 | -347 | 0 | -143 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.09 | 0.48 | 0.00 | 0.00 | 16.0 |
| 1D | 103 | -0 | -1173 | -347 | 0 | -143 | 701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1E | 103 | -0 | -1636 | 428 | 0 | 17 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.09 | 0.48 | 0.00 | 0.00 | 16.0 |
| 1F | 103 | -0 | -1173 | 428 | 0 | 17 | 701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1G | 103 | -0 | -1636 | -347 | 0 | -143 | 544 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.09 | 0.48 | 0.00 | 0.00 | 16.0 |
| 1H | 103 | -0 | -1173 | -347 | 0 | -143 | 701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1I | 103 | -0 | -1941 | 937 | 0 | 122 | 440 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.10 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1J | 103 | -0 | -869 | 937 | 0 | 122 | 805 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1K | 103 | -0 | -1941 | -856 | 0 | -248 | 440 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.10 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1L | 103 | -0 | -869 | -856 | 0 | -248 | 805 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1M | 103 | -0 | -1941 | 937 | 0 | 122 | 440 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.10 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1N | 103 | -0 | -869 | 937 | 0 | 122 | 805 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1O | 103 | -0 | -1941 | -856 | 0 | -248 | 440 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.10 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1P | 103 | -0 | -869 | -856 | 0 | -248 | 805 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.05 | 0.31 | 0.00 | 0.00 | 16.0 |
| 2 | 103 | -0 | -2382 | 86 | 0 | -104 | 997 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.13 | 0.70 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -0 | -1986 | 428 | 0 | -71 | 172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1B | 123 | -0 | -1523 | 428 | 0 | -71 | 425 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1C | 123 | -0 | -1986 | -347 | 0 | -72 | 172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1D | 123 | -0 | -1523 | -347 | 0 | -72 | 425 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1E | 123 | -0 | -1986 | 428 | 0 | -71 | 172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1F | 123 | -0 | -1523 | 428 | 0 | -71 | 425 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1G | 123 | -0 | -1986 | -347 | 0 | -72 | 172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1H | 123 | -0 | -1523 | -347 | 0 | -72 | 425 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1I | 123 | -0 | -2290 | 937 | 0 | -70 | 6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1J | 123 | -0 | -1219 | 937 | 0 | -70 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1K | 123 | -0 | -2290 | -856 | 0 | -73 | 6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1L | 123 | -0 | -1219 | -856 | 0 | -73 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1M | 123 | -0 | -2290 | 937 | 0 | -70 | 6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1N | 123 | -0 | -1219 | 937 | 0 | -70 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1O | 123 | -0 | -2290 | -856 | 0 | -73 | 6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1P | 123 | -0 | -1219 | -856 | 0 | -73 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 2 | 123 | -0 | -2956 | 86 | 0 | -122 | 450 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.16 | 0.87 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | -0 | -2335 | 428 | 0 | -158 | -271 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1B | 144 | -0 | -1872 | 428 | 0 | -158 | 77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1C | 144 | -0 | -2335 | -347 | 0 | -1 | -271 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1D | 144 | -0 | -1872 | -347 | 0 | -1 | 77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1E | 144 | -0 | -2335 | 428 | 0 | -158 | -271 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1F | 144 | -0 | -1872 | 428 | 0 | -158 | 77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1G | 144 | -0 | -2335 | -347 | 0 | -1 | -271 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1H | 144 | -0 | -1872 | -347 | 0 | -1 | 77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1I | 144 | -0 | -2639 | 937 | 0 | -262 | -499 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1J | 144 | -0 | -1568 | 937 | 0 | -262 | 305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.08 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1K | 144 | -0 | -2639 | -856 | 0 | 103 | -499 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1L | 144 | -0 | -1568 | -856 | 0 | 103 | 305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.08 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1M | 144 | -0 | -2639 | 937 | 0 | -262 | -499 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1N | 144 | -0 | -1568 | 937 | 0 | -262 | 305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.08 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1O | 144 | -0 | -2639 | -856 | 0 | 103 | -499 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.14 | 0.77 | 0.00 | 0.00 | 16.0 |
| 1P | 144 | -0 | -1568 | -856 | 0 | 103 | 305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.08 | 0.46 | 0.00 | 0.00 | 16.0 |
| 2 | 144 | -0 | -3531 | 86 | 0 | -139 | -215 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.19 | 1.04 | 4.93 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | -0 | -2685 | 428 | 0 | -246 | -785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1B | 164 | -0 | -2222 | 428 | 0 | -246 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1C | 164 | -0 | -2685 | -347 | 0 | 70 | -785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1D | 164 | -0 | -2222 | -347 | 0 | 70 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1E | 164 | -0 | -2685 | 428 | 0 | -246 | -785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1F | 164 | -0 | -2222 | 428 | 0 | -246 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1G | 164 | -0 | -2685 | -347 | 0 | 70 | -785 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1H | 164 | -0 | -2222 | -347 | 0 | 70 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1I | 164 | -0 | -2989 | 937 | 0 | -454 | -1076 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1J | 164 | -0 | -1917 | 937 | 0 | -454 | -52 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1K | 164 | -0 | -2989 | -856 | 0 | 278 | -1076 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1L | 164 | -0 | -1917 | -856 | 0 | 278 | -52 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1M | 164 | -0 | -2989 | 937 | 0 | -454 | -1076 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1N | 164 | -0 | -1917 | 937 | 0 | -454 | -52 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1O | 164 | -0 | -2989 | -856 | 0 | 278 | -1076 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.16 | 0.88 | 0.00 | 0.00 | 16.0 |
| 1P | 164 | -0 | -1917 | -856 | 0 | 278 | -52 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.10 | 0.56 | 0.00 | 0.00 | 16.0 |
| 2 | 164 | -0 | -4106 | 86 | 0 | -157 | -998 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.22 | 1.20 | 5.73 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -0 | -3034 | 428 | 0 | -334 | -1371 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1B | 185 | -0 | -2571 | 428 | 0 | -334 | -834 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1C | 185 | -0 | -3034 | -347 | 0 | 141 | -1371 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1D | 185 | -0 | -2571 | -347 | 0 | 141 | -834 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1E | 185 | -0 | -3034 | 428 | 0 | -334 | -1371 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1F | 185 | -0 | -2571 | 428 | 0 | -334 | -834 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1G | 185 | -0 | -3034 | -347 | 0 | 141 | -1371 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1H | 185 | -0 | -2571 | -347 | 0 | 141 | -834 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1I | 185 | -0 | -3338 | 937 | 0 | -646 | -1724 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1J | 185 | -0 | -2267 | 937 | 0 | -646 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.12 | 0.66 | 0.00 | 0.00 | 5.0 |
| 1K | 185 | -0 | -3338 | -856 | 0 | 453 | -1724 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1L | 185 | -0 | -2267 | -856 | 0 | 453 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.12 | 0.66 | 0.00 | 0.00 | 5.0 |
| 1M | 185 | -0 | -3338 | 937 | 0 | -646 | -1724 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1N | 185 | -0 | -2267 | 937 | 0 | -646 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.12 | 0.66 | 0.00 | 0.00 | 5.0 |
| 1O | 185 | -0 | -3338 | -856 | 0 | 453 | -1724 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1P | 185 | -0 | -2267 | -856 | 0 | 453 | -481 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.12 | 0.66 | 0.00 | 0.00 | 5.0 |
| 2 | 185 | -0 | -4680 | 86 | 0 | -175 | -1899 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.83 | 0.25 | 1.37 | 6.53 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -0 | -3384 | 428 | 0 | -422 | -2029 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.89 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1B | 205 | -0 | -2920 | 428 | 0 | -422 | -1397 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.15 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1C | 205 | -0 | -3384 | -347 | 0 | 212 | -2029 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.89 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1D | 205 | -0 | -2920 | -347 | 0 | 212 | -1397 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.15 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1E | 205 | -0 | -3384 | 428 | 0 | -422 | -2029 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.89 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1F | 205 | -0 | -2920 | 428 | 0 | -422 | -1397 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.15 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1G | 205 | -0 | -3384 | -347 | 0 | 212 | -2029 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.89 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1H | 205 | -0 | -2920 | -347 | 0 | 212 | -1397 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.15 | 0.86 | 0.00 | 0.00 | 5.0 |
| 1I | 205 | -0 | -3688 | 937 | 0 | -838 | -2444 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.72 | 0.19 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1J | 205 | -0 | -2616 | 937 | 0 | -838 | -982 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.14 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1K | 205 | -0 | -3688 | -856 | 0 | 629 | -2444 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.72 | 0.19 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1L | 205 | -0 | -2616 | -856 | 0 | 629 | -982 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.14 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1M | 205 | -0 | -3688 | 937 | 0 | -838 | -2444 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.72 | 0.19 | 0.94 | 0.00 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 205 | -0 | -2616 | 937 | 0 | -838 | -982 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.14 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1O | 205 | -0 | -3688 | -856 | 0 | 629 | -2444 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.72 | 0.19 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1P | 205 | -0 | -2616 | -856 | 0 | 629 | -982 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.14 | 0.77 | 0.00 | 0.00 | 5.0 |
| 2 | 205 | -0 | -5255 | 86 | 0 | -192 | -2917 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.86 | 0.28 | 1.35 | 7.33 | 0.00 | 5.0 |

apost= -- aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 21** NI 17664 NF 17596 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 17.0625 15.3000 34.0125 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 1689 | -208 | 0 | -136 | 133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.50 | 0.00 | 0.00 | 5.0 |
| 1B | 0 | -0 | 1873 | -208 | 0 | -136 | -28 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.10 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1C | 0 | -0 | 1689 | -275 | 0 | -427 | 133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.09 | 0.50 | 0.00 | 0.00 | 5.0 |
| 1D | 0 | -0 | 1873 | -275 | 0 | -427 | -28 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.10 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1E | 0 | -0 | 1689 | -208 | 0 | -136 | 133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.50 | 0.00 | 0.00 | 5.0 |
| 1F | 0 | -0 | 1873 | -208 | 0 | -136 | -28 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.10 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1G | 0 | -0 | 1689 | -275 | 0 | -427 | 133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.09 | 0.50 | 0.00 | 0.00 | 5.0 |
| 1H | 0 | -0 | 1873 | -275 | 0 | -427 | -28 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.10 | 0.55 | 0.00 | 0.00 | 5.0 |
| 1I | 0 | -0 | 1568 | -164 | 0 | 55 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 1994 | -164 | 0 | 55 | -133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1K | 0 | -0 | 1568 | -319 | 0 | -618 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 1994 | -319 | 0 | -618 | -133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1M | 0 | -0 | 1568 | -164 | 0 | 55 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 1994 | -164 | 0 | 55 | -133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1O | 0 | -0 | 1568 | -319 | 0 | -618 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.08 | 0.46 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 1994 | -319 | 0 | -618 | -133 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 2 | 0 | -0 | 2910 | -434 | 0 | -501 | 169 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.15 | 0.85 | 0.00 | 0.00 | 5.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 19 | -0 | 1159 | -208 | 0 | -97 | 403 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.34 | 0.00 | 0.00 | 5.0 |
| 1B | 19 | -0 | 1343 | -208 | 0 | -97 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1C | 19 | -0 | 1159 | -275 | 0 | -375 | 403 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.34 | 0.00 | 0.00 | 5.0 |
| 1D | 19 | -0 | 1343 | -275 | 0 | -375 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1E | 19 | -0 | 1159 | -208 | 0 | -97 | 403 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.34 | 0.00 | 0.00 | 5.0 |
| 1F | 19 | -0 | 1343 | -208 | 0 | -97 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1G | 19 | -0 | 1159 | -275 | 0 | -375 | 403 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.34 | 0.00 | 0.00 | 5.0 |
| 1H | 19 | -0 | 1343 | -275 | 0 | -375 | 278 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.07 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1I | 19 | -0 | 1038 | -164 | 0 | 86 | 486 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1J | 19 | -0 | 1463 | -164 | 0 | 86 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1K | 19 | -0 | 1038 | -319 | 0 | -557 | 486 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1L | 19 | -0 | 1463 | -319 | 0 | -557 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1M | 19 | -0 | 1038 | -164 | 0 | 86 | 486 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1N | 19 | -0 | 1463 | -164 | 0 | 86 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1O | 19 | -0 | 1038 | -319 | 0 | -557 | 486 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.30 | 0.00 | 0.00 | 5.0 |
| 1P | 19 | -0 | 1463 | -319 | 0 | -557 | 195 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 2 | 19 | -0 | 2011 | -434 | 0 | -418 | 636 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.11 | 0.59 | 0.00 | 0.00 | 5.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -0 | 629 | -208 | 0 | -57 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1B | 38 | -0 | 812 | -208 | 0 | -57 | 483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1C | 38 | -0 | 629 | -275 | 0 | -322 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1D | 38 | -0 | 812 | -275 | 0 | -322 | 483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1E | 38 | -0 | 629 | -208 | 0 | -57 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1F | 38 | -0 | 812 | -208 | 0 | -57 | 483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1G | 38 | -0 | 629 | -275 | 0 | -322 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1H | 38 | -0 | 812 | -275 | 0 | -322 | 483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1I | 38 | -0 | 508 | -164 | 0 | 117 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.03 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1J | 38 | -0 | 933 | -164 | 0 | 117 | 423 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1K | 38 | -0 | 508 | -319 | 0 | -497 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.03 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1L | 38 | -0 | 933 | -319 | 0 | -497 | 423 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1M | 38 | -0 | 508 | -164 | 0 | 117 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.03 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1N | 38 | -0 | 933 | -164 | 0 | 117 | 423 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1O | 38 | -0 | 508 | -319 | 0 | -497 | 633 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.03 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1P | 38 | -0 | 933 | -319 | 0 | -497 | 423 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 2 | 38 | -0 | 1113 | -434 | 0 | -336 | 934 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.06 | 0.33 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 57 | -0 | 99 | -208 | 0 | -18 | 643 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1B | 57 | -0 | 282 | -208 | 0 | -18 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1C | 57 | -0 | 99 | -275 | 0 | -270 | 643 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1D | 57 | -0 | 282 | -275 | 0 | -270 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1E | 57 | -0 | 99 | -208 | 0 | -18 | 643 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1F | 57 | -0 | 282 | -208 | 0 | -18 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1G | 57 | -0 | 99 | -275 | 0 | -270 | 643 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1H | 57 | -0 | 282 | -275 | 0 | -270 | 587 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1I | 57 | -0 | -22 | -164 | 0 | 148 | 679 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1J | 57 | -0 | 403 | -164 | 0 | 148 | 550 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1K | 57 | -0 | -22 | -319 | 0 | -436 | 679 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1L | 57 | -0 | 403 | -319 | 0 | -436 | 550 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1M | 57 | -0 | -22 | -164 | 0 | 148 | 679 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1N | 57 | -0 | 403 | -164 | 0 | 148 | 550 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 57 | -0 | -22 | -319 | 0 | -436 | 679 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1P | 57 | -0 | 403 | -319 | 0 | -436 | 550 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 2 | 57 | -0 | 214 | -434 | 0 | -253 | 1060 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.02 | 0.16 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 76 | -0 | -432 | -208 | 0 | 22 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1B | 76 | -0 | -248 | -208 | 0 | 22 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1C | 76 | -0 | -432 | -275 | 0 | -218 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1D | 76 | -0 | -248 | -275 | 0 | -218 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1E | 76 | -0 | -432 | -208 | 0 | 22 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1F | 76 | -0 | -248 | -208 | 0 | 22 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1G | 76 | -0 | -432 | -275 | 0 | -218 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.02 | 0.13 | 0.00 | 0.00 | 16.0 |
| 1H | 76 | -0 | -248 | -275 | 0 | -218 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1I | 76 | -0 | -552 | -164 | 0 | 179 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1J | 76 | -0 | -127 | -164 | 0 | 179 | 576 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1K | 76 | -0 | -552 | -319 | 0 | -375 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1L | 76 | -0 | -127 | -319 | 0 | -375 | 576 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1M | 76 | -0 | -552 | -164 | 0 | 179 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1N | 76 | -0 | -127 | -164 | 0 | 179 | 576 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |
| 1O | 76 | -0 | -552 | -319 | 0 | -375 | 625 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1P | 76 | -0 | -127 | -319 | 0 | -375 | 576 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 2 | 76 | -0 | -684 | -434 | 0 | -171 | 1015 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 95 | -0 | -962 | -208 | 0 | 61 | 479 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1B | 95 | -0 | -778 | -208 | 0 | 61 | 493 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1C | 95 | -0 | -962 | -275 | 0 | -166 | 479 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1D | 95 | -0 | -778 | -275 | 0 | -166 | 493 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1E | 95 | -0 | -962 | -208 | 0 | 61 | 479 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1F | 95 | -0 | -778 | -208 | 0 | 61 | 493 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1G | 95 | -0 | -962 | -275 | 0 | -166 | 479 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1H | 95 | -0 | -778 | -275 | 0 | -166 | 493 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.04 | 0.23 | 0.00 | 0.00 | 16.0 |
| 1I | 95 | -0 | -1083 | -164 | 0 | 210 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1J | 95 | -0 | -657 | -164 | 0 | 210 | 502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1K | 95 | -0 | -1083 | -319 | 0 | -315 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1L | 95 | -0 | -657 | -319 | 0 | -315 | 502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1M | 95 | -0 | -1083 | -164 | 0 | 210 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1N | 95 | -0 | -657 | -164 | 0 | 210 | 502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1O | 95 | -0 | -1083 | -319 | 0 | -315 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1P | 95 | -0 | -657 | -319 | 0 | -315 | 502 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 2 | 95 | -0 | -1583 | -434 | 0 | -88 | 800 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.08 | 0.46 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -0 | -1492 | -208 | 0 | 101 | 245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1B | 114 | -0 | -1308 | -208 | 0 | 101 | 294 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1C | 114 | -0 | -1492 | -275 | 0 | -113 | 245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1D | 114 | -0 | -1308 | -275 | 0 | -113 | 294 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1E | 114 | -0 | -1492 | -208 | 0 | 101 | 245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1F | 114 | -0 | -1308 | -208 | 0 | 101 | 294 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1G | 114 | -0 | -1492 | -275 | 0 | -113 | 245 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1H | 114 | -0 | -1308 | -275 | 0 | -113 | 294 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |
| 1I | 114 | -0 | -1613 | -164 | 0 | 242 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1J | 114 | -0 | -1188 | -164 | 0 | 242 | 326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1K | 114 | -0 | -1613 | -319 | 0 | -254 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1L | 114 | -0 | -1188 | -319 | 0 | -254 | 326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1M | 114 | -0 | -1613 | -164 | 0 | 242 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1N | 114 | -0 | -1188 | -164 | 0 | 242 | 326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1O | 114 | -0 | -1613 | -319 | 0 | -254 | 213 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.08 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1P | 114 | -0 | -1188 | -319 | 0 | -254 | 326 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 2 | 114 | -0 | -2482 | -434 | 0 | -5 | 413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -0 | -2022 | -208 | 0 | 140 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1B | 133 | -0 | -1839 | -208 | 0 | 140 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1C | 133 | -0 | -2022 | -275 | 0 | -61 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1D | 133 | -0 | -1839 | -275 | 0 | -61 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1E | 133 | -0 | -2022 | -208 | 0 | 140 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1F | 133 | -0 | -1839 | -208 | 0 | 140 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1G | 133 | -0 | -2022 | -275 | 0 | -61 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1H | 133 | -0 | -1839 | -275 | 0 | -61 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1I | 133 | -0 | -2143 | -164 | 0 | 273 | -144 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1J | 133 | -0 | -1718 | -164 | 0 | 273 | 50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1K | 133 | -0 | -2143 | -319 | 0 | -193 | -144 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1L | 133 | -0 | -1718 | -319 | 0 | -193 | 50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1M | 133 | -0 | -2143 | -164 | 0 | 273 | -144 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1N | 133 | -0 | -1718 | -164 | 0 | 273 | 50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1O | 133 | -0 | -2143 | -319 | 0 | -193 | -144 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1P | 133 | -0 | -1718 | -319 | 0 | -193 | 50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 2 | 133 | -0 | -3380 | -434 | 0 | 77 | -144 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.18 | 0.99 | 0.00 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -0 | -2552 | -208 | 0 | 180 | -523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.75 | 0.00 | 0.00 | 16.0 |
| 1B | 152 | -0 | -2369 | -208 | 0 | 180 | -405 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1C | 152 | -0 | -2552 | -275 | 0 | -9 | -523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.75 | 0.00 | 0.00 | 16.0 |
| 1D | 152 | -0 | -2369 | -275 | 0 | -9 | -405 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1E | 152 | -0 | -2552 | -208 | 0 | 180 | -523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.75 | 0.00 | 0.00 | 16.0 |
| 1F | 152 | -0 | -2369 | -208 | 0 | 180 | -405 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1G | 152 | -0 | -2552 | -275 | 0 | -9 | -523 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.75 | 0.00 | 0.00 | 16.0 |
| 1H | 152 | -0 | -2369 | -275 | 0 | -9 | -405 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 152 | -0 | -2673 | -164 | 0 | 304 | -601 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1J | 152 | -0 | -2248 | -164 | 0 | 304 | -327 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1K | 152 | -0 | -2673 | -319 | 0 | -133 | -601 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1L | 152 | -0 | -2248 | -319 | 0 | -133 | -327 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1M | 152 | -0 | -2673 | -164 | 0 | 304 | -601 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1N | 152 | -0 | -2248 | -164 | 0 | 304 | -327 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1O | 152 | -0 | -2673 | -319 | 0 | -133 | -601 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.78 | 0.00 | 0.00 | 16.0 |
| 1P | 152 | -0 | -2248 | -319 | 0 | -133 | -327 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 2 | 152 | -0 | -4279 | -434 | 0 | 160 | -872 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.22 | 1.25 | 5.97 | 0.00 | 16.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 16.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -0 | -3083 | -208 | 0 | 219 | -1059 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1B | 171 | -0 | -2899 | -208 | 0 | 219 | -905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.15 | 0.85 | 0.00 | 0.00 | 5.0 |
| 1C | 171 | -0 | -3083 | -275 | 0 | 43 | -1059 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1D | 171 | -0 | -2899 | -275 | 0 | 43 | -905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.15 | 0.85 | 0.00 | 0.00 | 5.0 |
| 1E | 171 | -0 | -3083 | -208 | 0 | 219 | -1059 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1F | 171 | -0 | -2899 | -208 | 0 | 219 | -905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.15 | 0.85 | 0.00 | 0.00 | 5.0 |
| 1G | 171 | -0 | -3083 | -275 | 0 | 43 | -1059 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1H | 171 | -0 | -2899 | -275 | 0 | 43 | -905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.15 | 0.85 | 0.00 | 0.00 | 5.0 |
| 1I | 171 | -0 | -3203 | -164 | 0 | 335 | -1160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1J | 171 | -0 | -2778 | -164 | 0 | 335 | -804 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1K | 171 | -0 | -3203 | -319 | 0 | -72 | -1160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1L | 171 | -0 | -2778 | -319 | 0 | -72 | -804 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1M | 171 | -0 | -3203 | -164 | 0 | 335 | -1160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1N | 171 | -0 | -2778 | -164 | 0 | 335 | -804 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1O | 171 | -0 | -3203 | -319 | 0 | -72 | -1160 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1P | 171 | -0 | -2778 | -319 | 0 | -72 | -804 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 2 | 171 | -0 | -5177 | -434 | 0 | 242 | -1770 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.27 | 1.52 | 7.22 | 0.00 | 5.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -0 | -3613 | -208 | 0 | 259 | -1695 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1B | 190 | -0 | -3429 | -208 | 0 | 259 | -1507 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.18 | 1.01 | 4.78 | 0.00 | 5.0 |
| 1C | 190 | -0 | -3613 | -275 | 0 | 96 | -1695 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1D | 190 | -0 | -3429 | -275 | 0 | 96 | -1507 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.18 | 1.01 | 4.78 | 0.00 | 5.0 |
| 1E | 190 | -0 | -3613 | -208 | 0 | 259 | -1695 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1F | 190 | -0 | -3429 | -208 | 0 | 259 | -1507 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.18 | 1.01 | 4.78 | 0.00 | 5.0 |
| 1G | 190 | -0 | -3613 | -275 | 0 | 96 | -1695 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.74 | 0.19 | 1.06 | 5.04 | 0.00 | 5.0 |
| 1H | 190 | -0 | -3429 | -275 | 0 | 96 | -1507 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.66 | 0.18 | 1.01 | 4.78 | 0.00 | 5.0 |
| 1I | 190 | -0 | -3734 | -164 | 0 | 366 | -1819 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.20 | 1.09 | 5.21 | 0.00 | 5.0 |
| 1J | 190 | -0 | -3308 | -164 | 0 | 366 | -1383 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1K | 190 | -0 | -3734 | -319 | 0 | -12 | -1819 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.20 | 1.09 | 5.21 | 0.00 | 5.0 |
| 1L | 190 | -0 | -3308 | -319 | 0 | -12 | -1383 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1M | 190 | -0 | -3734 | -164 | 0 | 366 | -1819 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.20 | 1.09 | 5.21 | 0.00 | 5.0 |
| 1N | 190 | -0 | -3308 | -164 | 0 | 366 | -1383 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1O | 190 | -0 | -3734 | -319 | 0 | -12 | -1819 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.20 | 1.09 | 5.21 | 0.00 | 5.0 |
| 1P | 190 | -0 | -3308 | -319 | 0 | -12 | -1383 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 2 | 190 | -0 | -6076 | -434 | 0 | 325 | -2840 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.84 | 0.32 | 1.56 | 8.48 | 0.00 | 5.0 |

apost= -- aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22** NI 17599 NF 17598 SEZ. Rp B= 20.0 H= 22.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.1000 1.1000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -1016 | 119 | 0 | 72 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.26 | 0.08 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1B | 0 | -0 | 506 | 119 | 0 | 72 | -262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1C | 0 | -0 | -1016 | 9 | 0 | 11 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.26 | 0.08 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1D | 0 | -0 | 506 | 9 | 0 | 11 | -262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1E | 0 | -0 | -1016 | 119 | 0 | 72 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.26 | 0.08 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1F | 0 | -0 | 506 | 119 | 0 | 72 | -262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1G | 0 | -0 | -1016 | 9 | 0 | 11 | 577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.26 | 0.08 | 0.39 | 0.00 | 0.00 | 5.0 |
| 1H | 0 | -0 | 506 | 9 | 0 | 11 | -262 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1I | 0 | -0 | -2016 | 191 | 0 | 112 | 1129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.50 | 0.16 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 1505 | 191 | 0 | 112 | -814 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.36 | 0.12 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1K | 0 | -0 | -2016 | -64 | 0 | -29 | 1129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.50 | 0.16 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 1505 | -64 | 0 | -29 | -814 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.36 | 0.12 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1M | 0 | -0 | -2016 | 191 | 0 | 112 | 1129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.50 | 0.16 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 1505 | 191 | 0 | 112 | -814 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.36 | 0.12 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1O | 0 | -0 | -2016 | -64 | 0 | -29 | 1129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.50 | 0.16 | 0.77 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 1505 | -64 | 0 | -29 | -814 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.36 | 0.12 | 0.58 | 0.00 | 0.00 | 5.0 |
| 2 | 0 | -0 | -430 | 123 | 0 | 79 | 256 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.03 | 0.17 | 0.00 | 0.00 | 5.0 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 11 | -0 | -1028 | 119 | 0 | 59 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1B | 11 | -0 | 494 | 119 | 0 | 59 | -207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1C | 11 | -0 | -1028 | 9 | 0 | 10 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1D | 11 | -0 | 494 | 9 | 0 | 10 | -207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1E | 11 | -0 | -1028 | 119 | 0 | 59 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1F | 11 | -0 | 494 | 119 | 0 | 59 | -207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1G | 11 | -0 | -1028 | 9 | 0 | 10 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1H | 11 | -0 | 494 | 9 | 0 | 10 | -207 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1I | 11 | -0 | -2028 | 191 | 0 | 91 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.40 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 11 | -0 | 1493 | 191 | 0 | 91 | -649 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 1K | 11 | -0 | -2028 | -64 | 0 | -22 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.40 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1L | 11 | -0 | 1493 | -64 | 0 | -22 | -649 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 1M | 11 | -0 | -2028 | 191 | 0 | 91 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.40 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1N | 11 | -0 | 1493 | 191 | 0 | 91 | -649 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 1O | 11 | -0 | -2028 | -64 | 0 | -22 | 906 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.40 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1P | 11 | -0 | 1493 | -64 | 0 | -22 | -649 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 2 | 11 | -0 | -446 | 123 | 0 | 66 | 208 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.04 | 0.17 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 22 | -0 | -1040 | 119 | 0 | 46 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1B | 22 | -0 | 481 | 119 | 0 | 46 | -154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1C | 22 | -0 | -1040 | 9 | 0 | 9 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1D | 22 | -0 | 481 | 9 | 0 | 9 | -154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1E | 22 | -0 | -1040 | 119 | 0 | 46 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1F | 22 | -0 | 481 | 119 | 0 | 46 | -154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1G | 22 | -0 | -1040 | 9 | 0 | 9 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.08 | 0.40 | 0.00 | 0.00 | 5.0 |
| 1H | 22 | -0 | 481 | 9 | 0 | 9 | -154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |
| 1I | 22 | -0 | -2040 | 191 | 0 | 70 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1J | 22 | -0 | 1481 | 191 | 0 | 70 | -485 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 1K | 22 | -0 | -2040 | -64 | 0 | -15 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1L | 22 | -0 | 1481 | -64 | 0 | -15 | -485 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 1M | 22 | -0 | -2040 | 191 | 0 | 70 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1N | 22 | -0 | 1481 | 191 | 0 | 70 | -485 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 1O | 22 | -0 | -2040 | -64 | 0 | -15 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.16 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1P | 22 | -0 | 1481 | -64 | 0 | -15 | -485 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.22 | 0.12 | 0.57 | 0.00 | 0.00 | 5.0 |
| 2 | 22 | -0 | -461 | 123 | 0 | 52 | 158 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.04 | 0.18 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -0 | -1053 | 119 | 0 | 33 | 236 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.08 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1B | 33 | -0 | 469 | 119 | 0 | 33 | -101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1C | 33 | -0 | -1053 | 9 | 0 | 8 | 236 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.08 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1D | 33 | -0 | 469 | 9 | 0 | 8 | -101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1E | 33 | -0 | -1053 | 119 | 0 | 33 | 236 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.08 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1F | 33 | -0 | 469 | 119 | 0 | 33 | -101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1G | 33 | -0 | -1053 | 9 | 0 | 8 | 236 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.08 | 0.40 | 0.00 | 0.00 | 16.0 |
| 1H | 33 | -0 | 469 | 9 | 0 | 8 | -101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1I | 33 | -0 | -2052 | 191 | 0 | 49 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1J | 33 | -0 | 1469 | 191 | 0 | 49 | -323 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1K | 33 | -0 | -2052 | -64 | 0 | -8 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1L | 33 | -0 | 1469 | -64 | 0 | -8 | -323 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1M | 33 | -0 | -2052 | 191 | 0 | 49 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1N | 33 | -0 | 1469 | 191 | 0 | 49 | -323 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1O | 33 | -0 | -2052 | -64 | 0 | -8 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1P | 33 | -0 | 1469 | -64 | 0 | -8 | -323 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.12 | 0.56 | 0.00 | 0.00 | 16.0 |
| 2 | 33 | -0 | -477 | 123 | 0 | 38 | 106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | -1065 | 119 | 0 | 20 | 119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1B | 44 | -0 | 457 | 119 | 0 | 20 | -50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1C | 44 | -0 | -1065 | 9 | 0 | 7 | 119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1D | 44 | -0 | 457 | 9 | 0 | 7 | -50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1E | 44 | -0 | -1065 | 119 | 0 | 20 | 119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1F | 44 | -0 | 457 | 119 | 0 | 20 | -50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1G | 44 | -0 | -1065 | 9 | 0 | 7 | 119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1H | 44 | -0 | 457 | 9 | 0 | 7 | -50 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.04 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1I | 44 | -0 | -2064 | 191 | 0 | 28 | 231 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1J | 44 | -0 | 1457 | 191 | 0 | 28 | -162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1K | 44 | -0 | -2064 | -64 | 0 | -1 | 231 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1L | 44 | -0 | 1457 | -64 | 0 | -1 | -162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1M | 44 | -0 | -2064 | 191 | 0 | 28 | 231 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1N | 44 | -0 | 1457 | 191 | 0 | 28 | -162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1O | 44 | -0 | -2064 | -64 | 0 | -1 | 231 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1P | 44 | -0 | 1457 | -64 | 0 | -1 | -162 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 2 | 44 | -0 | -493 | 123 | 0 | 25 | 53 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.04 | 0.19 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 55 | -0 | -1077 | 119 | 0 | 7 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1B | 55 | -0 | 445 | 119 | 0 | 7 | -1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.04 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1C | 55 | -0 | -1077 | 9 | 0 | 6 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1D | 55 | -0 | 445 | 9 | 0 | 6 | -1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.04 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1E | 55 | -0 | -1077 | 119 | 0 | 7 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1F | 55 | -0 | 445 | 119 | 0 | 7 | -1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.04 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1G | 55 | -0 | -1077 | 9 | 0 | 6 | 1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.08 | 0.41 | 0.00 | 0.00 | 16.0 |
| 1H | 55 | -0 | 445 | 9 | 0 | 6 | -1 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.00 | 0.04 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1I | 55 | -0 | -2077 | 191 | 0 | 7 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1J | 55 | -0 | 1445 | 191 | 0 | 7 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1K | 55 | -0 | -2077 | -64 | 0 | 6 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1L | 55 | -0 | 1445 | -64 | 0 | 6 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1M | 55 | -0 | -2077 | 191 | 0 | 7 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1N | 55 | -0 | 1445 | 191 | 0 | 7 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 1O | 55 | -0 | -2077 | -64 | 0 | 6 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1P | 55 | -0 | 1445 | -64 | 0 | 6 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.11 | 0.56 | 0.00 | 0.00 | 16.0 |
| 2 | 55 | -0 | -509 | 123 | 0 | 11 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | -0 | -1089 | 119 | 0 | -6 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1B | 66 | -0 | 433 | 119 | 0 | -6 | 48 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1C | 66 | -0 | -1089 | 9 | 0 | 5 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 66 | -0 | 433 | 9 | 0 | 5 | 48 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1E | 66 | -0 | -1089 | 119 | 0 | -6 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1F | 66 | -0 | 433 | 119 | 0 | -6 | 48 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1G | 66 | -0 | -1089 | 9 | 0 | 5 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1H | 66 | -0 | 433 | 9 | 0 | 5 | 48 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.02 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1I | 66 | -0 | -2089 | 191 | 0 | -14 | -226 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1J | 66 | -0 | 1433 | 191 | 0 | -14 | 156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1K | 66 | -0 | -2089 | -64 | 0 | 13 | -226 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1L | 66 | -0 | 1433 | -64 | 0 | 13 | 156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1M | 66 | -0 | -2089 | 191 | 0 | -14 | -226 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1N | 66 | -0 | 1433 | 191 | 0 | -14 | 156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1O | 66 | -0 | -2089 | -64 | 0 | 13 | -226 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.16 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1P | 66 | -0 | 1433 | -64 | 0 | 13 | 156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.07 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 2 | 66 | -0 | -524 | 123 | 0 | -2 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.03 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 77 | -0 | -1101 | 119 | 0 | -20 | -238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1B | 77 | -0 | 421 | 119 | 0 | -20 | 94 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1C | 77 | -0 | -1101 | 9 | 0 | 4 | -238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1D | 77 | -0 | 421 | 9 | 0 | 4 | 94 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1E | 77 | -0 | -1101 | 119 | 0 | -20 | -238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1F | 77 | -0 | 421 | 119 | 0 | -20 | 94 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1G | 77 | -0 | -1101 | 9 | 0 | 4 | -238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.09 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1H | 77 | -0 | 421 | 9 | 0 | 4 | 94 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.04 | 0.03 | 0.16 | 0.00 | 0.00 | 16.0 |
| 1I | 77 | -0 | -2101 | 191 | 0 | -35 | -456 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.17 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1J | 77 | -0 | 1421 | 191 | 0 | -35 | 313 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1K | 77 | -0 | -2101 | -64 | 0 | 20 | -456 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.17 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1L | 77 | -0 | 1421 | -64 | 0 | 20 | 313 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1M | 77 | -0 | -2101 | 191 | 0 | -35 | -456 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.17 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1N | 77 | -0 | 1421 | 191 | 0 | -35 | 313 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1O | 77 | -0 | -2101 | -64 | 0 | 20 | -456 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.17 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1P | 77 | -0 | 1421 | -64 | 0 | 20 | 313 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.11 | 0.55 | 0.00 | 0.00 | 16.0 |
| 2 | 77 | -0 | -540 | 123 | 0 | -16 | -117 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | -1113 | 119 | 0 | -33 | -360 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1B | 88 | -0 | 409 | 119 | 0 | -33 | 140 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.03 | 0.16 | 0.00 | 0.00 | 5.0 |
| 1C | 88 | -0 | -1113 | 9 | 0 | 3 | -360 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1D | 88 | -0 | 409 | 9 | 0 | 3 | 140 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.03 | 0.16 | 0.00 | 0.00 | 5.0 |
| 1E | 88 | -0 | -1113 | 119 | 0 | -33 | -360 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1F | 88 | -0 | 409 | 119 | 0 | -33 | 140 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.03 | 0.16 | 0.00 | 0.00 | 5.0 |
| 1G | 88 | -0 | -1113 | 9 | 0 | 3 | -360 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1H | 88 | -0 | 409 | 9 | 0 | 3 | 140 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.03 | 0.16 | 0.00 | 0.00 | 5.0 |
| 1I | 88 | -0 | -2113 | 191 | 0 | -56 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.17 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1J | 88 | -0 | 1409 | 191 | 0 | -56 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 1K | 88 | -0 | -2113 | -64 | 0 | 27 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.17 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1L | 88 | -0 | 1409 | -64 | 0 | 27 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 1M | 88 | -0 | -2113 | 191 | 0 | -56 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.17 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1N | 88 | -0 | 1409 | 191 | 0 | -56 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 1O | 88 | -0 | -2113 | -64 | 0 | 27 | -688 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.17 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1P | 88 | -0 | 1409 | -64 | 0 | 27 | 469 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 2 | 88 | -0 | -556 | 123 | 0 | -29 | -178 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.04 | 0.21 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 99 | -0 | -1125 | 119 | 0 | -46 | -483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1B | 99 | -0 | 397 | 119 | 0 | -46 | 184 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1C | 99 | -0 | -1125 | 9 | 0 | 2 | -483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1D | 99 | -0 | 397 | 9 | 0 | 2 | 184 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1E | 99 | -0 | -1125 | 119 | 0 | -46 | -483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1F | 99 | -0 | 397 | 119 | 0 | -46 | 184 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1G | 99 | -0 | -1125 | 9 | 0 | 2 | -483 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.21 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1H | 99 | -0 | 397 | 9 | 0 | 2 | 184 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1I | 99 | -0 | -2125 | 191 | 0 | -77 | -921 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.41 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1J | 99 | -0 | 1397 | 191 | 0 | -77 | 623 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 1K | 99 | -0 | -2125 | -64 | 0 | 34 | -921 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.41 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1L | 99 | -0 | 1397 | -64 | 0 | 34 | 623 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 1M | 99 | -0 | -2125 | 191 | 0 | -77 | -921 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.41 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1N | 99 | -0 | 1397 | 191 | 0 | -77 | 623 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 1O | 99 | -0 | -2125 | -64 | 0 | 34 | -921 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.41 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1P | 99 | -0 | 1397 | -64 | 0 | 34 | 623 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.11 | 0.54 | 0.00 | 0.00 | 5.0 |
| 2 | 99 | -0 | -572 | 123 | 0 | -43 | -240 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.05 | 0.22 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | -1137 | 119 | 0 | -59 | -607 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1B | 110 | -0 | 385 | 119 | 0 | -59 | 227 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1C | 110 | -0 | -1137 | 9 | 0 | 1 | -607 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1D | 110 | -0 | 385 | 9 | 0 | 1 | 227 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1E | 110 | -0 | -1137 | 119 | 0 | -59 | -607 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1F | 110 | -0 | 385 | 119 | 0 | -59 | 227 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1G | 110 | -0 | -1137 | 9 | 0 | 1 | -607 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1H | 110 | -0 | 385 | 9 | 0 | 1 | 227 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.03 | 0.15 | 0.00 | 0.00 | 5.0 |
| 1I | 110 | -0 | -2137 | 191 | 0 | -98 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.51 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1J | 110 | -0 | 1384 | 191 | 0 | -98 | 776 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.34 | 0.11 | 0.53 | 0.00 | 0.00 | 5.0 |
| 1K | 110 | -0 | -2137 | -64 | 0 | 41 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.51 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1L | 110 | -0 | 1384 | -64 | 0 | 41 | 776 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.34 | 0.11 | 0.53 | 0.00 | 0.00 | 5.0 |
| 1M | 110 | -0 | -2137 | 191 | 0 | -98 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.51 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1N | 110 | -0 | 1384 | 191 | 0 | -98 | 776 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.34 | 0.11 | 0.53 | 0.00 | 0.00 | 5.0 |
| 1O | 110 | -0 | -2137 | -64 | 0 | 41 | -1156 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.51 | 0.17 | 0.82 | 0.00 | 0.00 | 5.0 |
| 1P | 110 | -0 | 1384 | -64 | 0 | 41 | 776 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.34 | 0.11 | 0.53 | 0.00 | 0.00 | 5.0 |
| 2 | 110 | -0 | -587 | 123 | 0 | -56 | -303 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.13 | 0.05 | 0.23 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **66** Tabella: **Travi scala**
Descrizione: **Travi nuove 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 17419 NF 17447 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1B | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1C | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1D | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1E | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1F | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1G | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1H | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1I | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1J | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1K | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1L | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1M | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1N | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1O | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1P | 0 | -0 | 1626 | 619 | 0 | 117 | -292 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.14 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 2 | 0 | -0 | 2453 | 932 | 0 | 176 | -436 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.14 | 0.77 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1B | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1C | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1D | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1E | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1F | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1G | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1H | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1I | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1J | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1K | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1L | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1M | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1N | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1O | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1P | 6 | -0 | 1618 | 619 | 0 | 82 | -201 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 2 | 6 | -0 | 2442 | 932 | 0 | 123 | -298 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.15 | 0.14 | 0.77 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1B | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1C | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1D | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1E | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1F | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1G | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1H | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1I | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1J | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1K | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1L | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1M | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1N | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1O | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 1P | 11 | -0 | 1609 | 619 | 0 | 47 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.09 | 0.51 | 0.00 | 0.00 | 4.5 |
| 2 | 11 | -0 | 2431 | 932 | 0 | 71 | -161 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.14 | 0.76 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1B | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1C | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1D | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1E | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1F | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1G | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1H | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1I | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1J | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1K | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1L | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1M | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1N | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1O | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1P | 17 | -0 | 1601 | 619 | 0 | 12 | -20 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 2 | 17 | -0 | 2420 | 932 | 0 | 19 | -25 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.01 | 0.14 | 0.76 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1B | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1C | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1D | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1E | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1F | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1G | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1H | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1I | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1J | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1K | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1L | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1M | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1N | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1O | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1P | 22 | -0 | 1592 | 619 | 0 | -22 | 70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.03 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 2 | 22 | -0 | 2409 | 932 | 0 | -34 | 111 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.14 | 0.76 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1B | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1C | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1D | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1E | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1F | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1G | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1H | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1I | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1J | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1K | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1L | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1M | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1N | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1O | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 1P | 28 | -0 | 1584 | 619 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.09 | 0.50 | 0.00 | 0.00 | 4.5 |
| 2 | 28 | -0 | 2398 | 932 | 0 | -86 | 246 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.14 | 0.75 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1B | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1C | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1D | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1E | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1F | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1G | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1H | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1I | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1J | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1K | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1L | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1M | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1N | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1O | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 1P | 34 | -0 | 1576 | 619 | 0 | -92 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.12 | 0.09 | 0.50 | 0.00 | 0.00 | 14.4 |
| 2 | 34 | -0 | 2387 | 931 | 0 | -138 | 380 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.19 | 0.14 | 0.75 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1B | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1C | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1D | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1E | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1F | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1G | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1H | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1I | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1J | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1K | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1L | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1M | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1N | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1O | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1P | 39 | -0 | 1567 | 619 | 0 | -127 | 336 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 2 | 39 | -0 | 2376 | 932 | 0 | -191 | 514 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.14 | 0.75 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1B | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1C | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1D | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1F | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1G | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1H | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1I | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1J | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1K | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1L | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1M | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1N | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1O | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1P | 45 | -0 | 1559 | 619 | 0 | -162 | 424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 2 | 45 | -0 | 2365 | 932 | 0 | -243 | 647 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.32 | 0.14 | 0.74 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1B | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1C | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1D | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1E | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1F | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1G | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1H | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1I | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1J | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1K | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1L | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1M | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1N | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1O | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1P | 51 | -0 | 1550 | 619 | 0 | -196 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 2 | 51 | -0 | 2354 | 932 | 0 | -295 | 780 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.38 | 0.14 | 0.74 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1B | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1C | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1D | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1E | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1F | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1G | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1H | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1I | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1J | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1K | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1L | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1M | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1N | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1O | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 1P | 56 | -0 | 1542 | 619 | 0 | -231 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.09 | 0.49 | 0.00 | 0.00 | 14.4 |
| 2 | 56 | -0 | 2343 | 932 | 0 | -348 | 912 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.45 | 0.14 | 0.74 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 2**  NI 17447  NF 17417  SEZ.  Rp  B= 30.0  H= 20.0  (trave)

categoria: p.p. y qy tot.
qy medio:  1.5000  1.5000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta aswto | | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1B | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1C | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1D | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1E | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1F | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1G | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1H | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1I | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1J | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1K | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1L | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1M | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1N | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1O | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 1P | 0 | -0 | -734 | -272 | 0 | -302 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.30 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |
| 2 | 0 | -0 | -1143 | -414 | 0 | -458 | 939 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.07 | 0.36 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1B | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1C | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1D | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1E | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1G | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1H | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1I | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1J | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1K | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1L | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1M | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1N | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1O | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1P | 13 | -0 | -753 | -272 | 0 | -266 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.04 | 0.24 | 0.00 | 0.00 | 14.4 |
| 2 | 13 | -0 | -1168 | -414 | 0 | -404 | 788 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.39 | 0.07 | 0.37 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1B | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1C | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1D | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1E | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1F | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1G | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1H | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1I | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1J | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1K | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1L | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1M | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1N | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1O | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 1P | 26 | -0 | -773 | -272 | 0 | -230 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.05 | 0.24 | 0.00 | 0.00 | 14.4 |
| 2 | 26 | -0 | -1194 | -414 | 0 | -350 | 634 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.31 | 0.07 | 0.38 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1B | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1C | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1D | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1E | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1F | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1G | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1H | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1I | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1J | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1K | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1L | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1M | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1N | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1O | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 1P | 39 | -0 | -792 | -272 | 0 | -195 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.05 | 0.25 | 0.00 | 0.00 | 14.4 |
| 2 | 39 | -0 | -1219 | -414 | 0 | -296 | 477 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.07 | 0.38 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1B | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1C | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1D | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1E | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1F | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1G | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1H | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1I | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1J | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1K | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1L | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1M | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1N | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1O | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1P | 52 | -0 | -812 | -272 | 0 | -159 | 211 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.10 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 2 | 52 | -0 | -1245 | -414 | 0 | -242 | 316 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.07 | 0.39 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1B | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1C | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1D | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1E | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1F | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1G | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1H | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1I | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1J | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1K | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1L | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1M | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1N | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1O | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 1P | 65 | -0 | -831 | -272 | 0 | -124 | 104 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.05 | 0.05 | 0.26 | 0.00 | 0.00 | 14.4 |
| 2 | 65 | -0 | -1270 | -414 | 0 | -188 | 152 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.07 | 0.40 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1B | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1C | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1D | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1E | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1F | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1G | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1H | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1I | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1J | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1K | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1L | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1M | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1N | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1O | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1P | 78 | -0 | -851 | -272 | 0 | -88 | -6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.00 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 2 | 78 | -0 | -1295 | -414 | 0 | -134 | -15 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.04 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1B | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1C | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1D | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1E | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1F | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1G | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1H | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1I | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1J | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1K | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1L | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1M | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1N | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1O | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 1P | 91 | -0 | -871 | -272 | 0 | -53 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |
| 2 | 91 | -0 | -1321 | -414 | 0 | -80 | -186 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.09 | 0.08 | 0.42 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1B | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1C | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1D | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1E | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1F | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1G | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1H | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1I | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1J | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1K | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1L | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1M | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1N | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1O | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 1P | 104 | -0 | -890 | -272 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.11 | 0.05 | 0.28 | 0.00 | 0.00 | 4.5 |
| 2 | 104 | -0 | -1346 | -414 | 0 | -26 | -360 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.18 | 0.08 | 0.42 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1B | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1C | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1D | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1E | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1F | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1G | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1H | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1I | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1J | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1K | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1L | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1M | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1N | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1O | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1P | 117 | -0 | -910 | -272 | 0 | 18 | -351 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.17 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 2 | 117 | -0 | -1372 | -414 | 0 | 28 | -537 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.26 | 0.08 | 0.43 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1B | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1C | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1D | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1E | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1F | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1G | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1H | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1I | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1J | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1K | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1L | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1M | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1O | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 1P | 130 | -0 | -929 | -272 | 0 | 54 | -471 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.23 | 0.05 | 0.29 | 0.00 | 0.00 | 4.5 |
| 2 | 130 | -0 | -1397 | -414 | 0 | 82 | -718 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.08 | 0.44 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 3** NI 17447 NF 17326 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.5000 9.7200 7.3440 18.5640 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1B | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1C | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1D | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1E | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1F | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1G | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1H | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1I | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1J | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1K | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1L | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1M | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1N | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1O | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 1P | 0 | -0 | 2275 | 71 | 0 | 70 | -942 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.46 | 0.13 | 0.72 | 0.00 | 0.00 | 4.5 |
| 2 | 0 | -0 | 3486 | 112 | 0 | 111 | -1348 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.66 | 0.20 | 1.10 | 5.40 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1B | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1C | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1D | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1E | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1F | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1G | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1H | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1I | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1J | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1K | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1L | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1M | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1N | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1O | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 1P | 21 | -0 | 1953 | 71 | 0 | 56 | -505 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.25 | 0.11 | 0.61 | 0.00 | 0.00 | 4.5 |
| 2 | 21 | -0 | 2958 | 112 | 0 | 88 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.17 | 0.93 | 0.00 | 0.00 | 4.5 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.5 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1B | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1C | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1D | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1E | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1F | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1G | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1H | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1I | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1J | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1K | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1L | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1M | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1N | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1O | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 1P | 41 | -0 | 1630 | 71 | 0 | 41 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.07 | 0.10 | 0.51 | 0.00 | 0.00 | 14.4 |
| 2 | 41 | -0 | 2430 | 112 | 0 | 65 | -128 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.06 | 0.14 | 0.76 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1B | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1C | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1D | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1E | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1F | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1G | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1H | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1I | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1J | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1K | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1L | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1M | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1N | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1O | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 1P | 62 | -0 | 1308 | 71 | 0 | 27 | 167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.08 | 0.08 | 0.41 | 0.00 | 0.00 | 14.4 |
| 2 | 62 | -0 | 1901 | 112 | 0 | 42 | 319 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.16 | 0.11 | 0.60 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1B | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1C | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1D | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1E | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1F | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1G | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1H | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1I | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1J | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1K | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1L | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1M | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1N | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1O | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 1P | 83 | -0 | 986 | 71 | 0 | 12 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.20 | 0.06 | 0.31 | 0.00 | 0.00 | 14.4 |
| 2 | 83 | -0 | 1373 | 112 | 0 | 19 | 657 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.32 | 0.08 | 0.43 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1B | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1C | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1D | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1E | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1F | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1G | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1H | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1I | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1J | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1K | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1L | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1M | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1N | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1O | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 1P | 103 | -0 | 663 | 71 | 0 | -2 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.28 | 0.04 | 0.21 | 0.00 | 0.00 | 14.4 |
| 2 | 103 | -0 | 845 | 112 | 0 | -4 | 886 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.44 | 0.05 | 0.27 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1B | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1C | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1D | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1E | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1F | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1G | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1H | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1I | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1J | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1K | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1L | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1M | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1N | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1O | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 1P | 124 | -0 | 341 | 71 | 0 | -17 | 678 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.33 | 0.02 | 0.11 | 0.00 | 0.00 | 14.4 |
| 2 | 124 | -0 | 317 | 111 | 0 | -27 | 1005 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.49 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1B | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1C | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1D | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1E | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1F | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1G | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1H | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1I | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1J | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1K | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1L | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1M | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1N | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1O | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 1P | 144 | -0 | 19 | 71 | 0 | -32 | 715 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.00 | 0.03 | 0.00 | 0.00 | 14.4 |
| 2 | 144 | -0 | -211 | 112 | 0 | -50 | 1016 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.50 | 0.01 | 0.07 | 0.00 | 0.00 | 14.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 14.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1B | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1C | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1D | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1E | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1F | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1G | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1H | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1I | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1J | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1K | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1L | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1M | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1N | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1O | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 1P | 165 | -0 | -304 | 71 | 0 | -46 | 686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.34 | 0.02 | 0.10 | 0.00 | 0.00 | 14.4 |
| 2 | 165 | -0 | -740 | 112 | 0 | -73 | 918 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.45 | 0.04 | 0.23 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1B | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1C | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1D | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1E | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1F | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1G | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1H | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1I | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1J | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1K | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1L | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1M | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1N | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1O | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 1P | 186 | -0 | -626 | 71 | 0 | -61 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.29 | 0.04 | 0.20 | 0.00 | 0.00 | 4.5 |
| 2 | 186 | -0 | -1268 | 112 | 0 | -96 | 711 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.35 | 0.07 | 0.40 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1B | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1C | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1D | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1E | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1F | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1G | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1H | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1I | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1J | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1K | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1L | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1M | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1N | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1O | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 1P | 206 | -0 | -948 | 71 | 0 | -75 | 427 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.21 | 0.06 | 0.30 | 0.00 | 0.00 | 4.5 |
| 2 | 206 | -0 | -1796 | 112 | 0 | -119 | 395 | 3.08 | 3.08 | 3.08 | 3.08 | 0.16 | 0.19 | 0.10 | 0.57 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4**  NI 17327  NF 17323  SEZ.  Rp  B= 20.0  H= 20.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.0000  4.0500  3.0600  8.1100  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1B | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1C | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1D | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1E | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1F | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1G | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1H | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1I | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1J | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1K | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1L | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1M | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1N | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1O | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 1P | 0 | -0 | 350 | -13 | 0 | -11 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |
| 2 | 0 | -0 | 568 | -18 | 0 | -15 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.04 | 0.05 | 0.23 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1B | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1C | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1D | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1E | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1F | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1G | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1H | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1I | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1K | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1L | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1M | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1N | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1O | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 1P | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.03 | 0.12 | 0.00 | 0.00 | 4.5 |
| 2 | 9 | -0 | 468 | -18 | 0 | -13 | -42 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.04 | 0.19 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1B | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1C | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1D | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1E | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1F | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1G | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1H | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1I | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1J | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1K | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1L | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1M | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1N | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1O | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1P | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 2 | 18 | -0 | 367 | -18 | 0 | -12 | -4 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.15 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1B | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1C | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1D | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1E | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1F | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1G | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1H | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1I | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1J | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1K | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1L | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1M | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1N | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1O | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 1P | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 4.5 |
| 2 | 27 | -0 | 267 | -18 | 0 | -10 | 24 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1B | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1C | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1D | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1E | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1F | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1G | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1H | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1I | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1J | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1K | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1L | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1M | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1N | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1O | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 1P | 36 | -0 | 102 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 14.4 |
| 2 | 36 | -0 | 167 | -18 | 0 | -8 | 44 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1B | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1C | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1D | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1E | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1F | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1G | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1H | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1I | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1J | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1K | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1L | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1M | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1N | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1O | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 1P | 45 | -0 | 40 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 14.4 |
| 2 | 45 | -0 | 66 | -18 | 0 | -7 | 54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.01 | 0.03 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1B | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1C | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1E | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1F | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1G | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1H | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1I | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1J | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1K | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1L | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1M | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1N | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1O | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 1P | 54 | -0 | -22 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |
| 2 | 54 | -0 | -34 | -18 | 0 | -5 | 56 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 14.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1B | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1C | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1D | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1E | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1F | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1G | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1H | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1I | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1J | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1K | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1L | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1M | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1N | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1O | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 1P | 63 | -0 | -84 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 4.5 |
| 2 | 63 | -0 | -135 | -18 | 0 | -4 | 48 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1B | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1C | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1D | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1E | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1F | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1G | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1H | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1I | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1J | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1K | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1L | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1M | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1N | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1O | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 1P | 72 | -0 | -146 | -13 | 0 | -1 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 | 4.5 |
| 2 | 72 | -0 | -235 | -18 | 0 | -2 | 31 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.02 | 0.02 | 0.10 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1B | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1C | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1D | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1E | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1F | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1G | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1H | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1I | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1J | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1K | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1L | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1M | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1N | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1O | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 1P | 81 | -0 | -208 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 | 4.5 |
| 2 | 81 | -0 | -335 | -18 | 0 | -0 | 6 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.00 | 0.03 | 0.14 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1B | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1C | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1D | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1E | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1F | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1G | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1H | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1I | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1J | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1K | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1L | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1M | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1N | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1O | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 1P | 90 | -0 | -270 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 4.5 |
| 2 | 90 | -0 | -436 | -18 | 0 | 1 | -29 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.01 | 0.04 | 0.18 | 0.00 | 0.00 | 4.5 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 1.54 )

# Verifiche della sicurezza in condizioni di Progetto – Verifica Travi 4° P SLE

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **30** Tabella: **Tabella travi**
Descrizione: **Travi 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 15765 NF 15760 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -4552 | 11960 | -222 | 448 | -263 | -515 | 3.08 | 9.24 | 4.62 | 9.24 | -1.23 | 10.4 | 0.00 |
| 4 | 0 | -4248 | 11080 | -208 | 407 | -246 | -482 | 3.08 | 9.24 | 4.62 | 9.24 | -1.15 | 9.7 | 0.00 |
| 5 | 0 | -4144 | 10790 | -204 | 394 | -241 | -472 | 3.08 | 9.24 | 4.62 | 9.24 | -1.13 | 9.5 | 0.00 |
| apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 29 | -4552 | 11258 | -222 | 448 | -199 | 2801 | 3.08 | 9.24 | 9.24 | 4.62 | -6.70 | 56.6 | 0.00 |
| 4 | 29 | -4248 | 10426 | -208 | 407 | -187 | 2590 | 3.08 | 9.24 | 9.24 | 4.62 | -6.20 | 52.3 | 0.00 |
| 5 | 29 | -4144 | 10152 | -204 | 394 | -183 | 2520 | 3.08 | 9.24 | 9.24 | 4.62 | -6.03 | 50.9 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 57 | -4552 | 10555 | -222 | 448 | -136 | 5917 | 3.08 | 9.24 | 9.24 | 4.62 | -14.16 | 119.5 | 0.00 |
| 4 | 57 | -4248 | 9772 | -208 | 407 | -128 | 5475 | 3.08 | 9.24 | 9.24 | 4.62 | -13.10 | 110.6 | 0.00 |
| 5 | 57 | -4144 | 9514 | -204 | 394 | -125 | 5329 | 3.08 | 9.24 | 9.24 | 4.62 | -12.75 | 107.6 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 86 | -4552 | 9852 | -222 | 448 | -73 | 8833 | 3.08 | 9.24 | 9.24 | 3.08 | -36.90 | 1556.9 | 0.06 |
| 4 | 86 | -4248 | 9118 | -208 | 407 | -68 | 8174 | 3.08 | 9.24 | 9.24 | 3.08 | -19.80 | 165.9 | 0.00 |
| 5 | 86 | -4144 | 8876 | -204 | 394 | -67 | 7956 | 3.08 | 9.24 | 9.24 | 3.08 | -19.27 | 161.5 | 0.00 |
| apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 114 | -4552 | 9150 | -222 | 448 | -9 | 11547 | 3.08 | 3.08 | 9.24 | 3.08 | -48.24 | 2035.3 | 0.10 |
| 4 | 114 | -4248 | 8464 | -208 | 407 | -9 | 10685 | 3.08 | 3.08 | 9.24 | 3.08 | -44.64 | 1883.5 | 0.09 |
| 5 | 114 | -4144 | 8238 | -204 | 394 | -8 | 10401 | 3.08 | 3.08 | 9.24 | 3.08 | -43.45 | 1833.3 | 0.09 |
| apost= -- aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 143 | -4552 | 8448 | -222 | 448 | 54 | 14061 | 9.24 | 3.08 | 9.24 | 3.08 | -58.74 | 2478.5 | 0.13 |
| 4 | 143 | -4248 | 7810 | -208 | 407 | 51 | 13010 | 9.24 | 3.08 | 9.24 | 3.08 | -54.35 | 2293.2 | 0.12 |
| 5 | 143 | -4144 | 7600 | -204 | 394 | 50 | 12663 | 9.24 | 3.08 | 9.24 | 3.08 | -52.90 | 2232.0 | 0.12 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 171 | -4552 | 7745 | -222 | 448 | 117 | 16374 | 9.24 | 3.08 | 9.24 | 3.08 | -68.40 | 2886.2 | 0.16 |
| 4 | 171 | -4248 | 7156 | -208 | 407 | 110 | 15148 | 9.24 | 3.08 | 9.24 | 3.08 | -63.28 | 2670.0 | 0.15 |
| 5 | 171 | -4144 | 6961 | -204 | 394 | 108 | 14743 | 9.24 | 3.08 | 9.24 | 3.08 | -61.59 | 2598.7 | 0.14 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 200 | -4552 | 7043 | -222 | 448 | 180 | 18487 | 9.24 | 3.08 | 9.24 | 3.08 | -77.23 | 3258.5 | 0.19 |
| 4 | 200 | -4248 | 6502 | -208 | 407 | 170 | 17099 | 9.24 | 3.08 | 9.24 | 3.08 | -71.43 | 3013.9 | 0.17 |
| 5 | 200 | -4144 | 6323 | -204 | 394 | 166 | 16641 | 9.24 | 3.08 | 9.24 | 3.08 | -69.51 | 2933.2 | 0.17 |
| apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 229 | -4552 | 6340 | -222 | 448 | 244 | 20398 | 9.24 | 3.08 | 10.78 | 3.08 | -80.59 | 3101.2 | 0.17 |
| 4 | 229 | -4248 | 5848 | -208 | 407 | 229 | 18863 | 9.24 | 3.08 | 10.78 | 3.08 | -74.52 | 2867.7 | 0.15 |
| 5 | 229 | -4144 | 5685 | -204 | 394 | 224 | 18356 | 9.24 | 3.08 | 10.78 | 3.08 | -72.52 | 2790.7 | 0.15 |
| apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 257 | -4552 | 5638 | -222 | 448 | 307 | 22110 | 9.24 | 3.08 | 12.32 | 3.08 | -83.32 | 2958.1 | 0.15 |
| 4 | 257 | -4248 | 5194 | -208 | 407 | 289 | 20440 | 9.24 | 3.08 | 12.32 | 3.08 | -77.03 | 2734.7 | 0.14 |
| 5 | 257 | -4144 | 5047 | -204 | 394 | 282 | 19889 | 9.24 | 3.08 | 12.32 | 3.08 | -74.95 | 2661.0 | 0.14 |
| apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 286 | -4552 | 4935 | -222 | 448 | 370 | 23620 | 9.24 | 9.24 | 12.32 | 3.08 | -89.01 | 3160.2 | 0.17 |
| 4 | 286 | -4248 | 4540 | -208 | 407 | 348 | 21830 | 9.24 | 9.24 | 12.32 | 3.08 | -82.27 | 2920.7 | 0.15 |
| 5 | 286 | -4144 | 4409 | -204 | 394 | 341 | 21240 | 9.24 | 9.24 | 12.32 | 3.08 | -80.04 | 2841.7 | 0.15 |
| apost= 6.16 aant= 6.16 ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 2** NI 15760 NF 15767 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.9600 5.6304 24.5904 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -5899 | -4856 | -321 | 646 | -343 | 23300 | 9.24 | 9.24 | 12.32 | 3.08 | -87.81 | 3117.3 | 0.16 |
| 4 | 0 | -5492 | -4459 | -299 | 587 | -317 | 21540 | 9.24 | 9.24 | 12.32 | 3.08 | -81.17 | 2881.9 | 0.15 |
| 5 | 0 | -5354 | -4327 | -291 | 568 | -309 | 20950 | 9.24 | 9.24 | 12.32 | 3.08 | -78.95 | 2802.9 | 0.14 |
| apost= 6.16 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 28 | -5899 | -5539 | -321 | 646 | -254 | 21855 | 4.62 | 9.24 | 10.78 | 3.08 | -86.35 | 3322.6 | 0.18 |
| 4 | 28 | -5492 | -5096 | -299 | 587 | -234 | 20211 | 4.62 | 9.24 | 10.78 | 3.08 | -79.85 | 3072.8 | 0.17 |
| 5 | 28 | -5354 | -4948 | -291 | 568 | -228 | 19661 | 4.62 | 9.24 | 10.78 | 3.08 | -77.68 | 2989.0 | 0.16 |
| apost= 1.54 aant= 6.16 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 56 | -5899 | -6223 | -321 | 646 | -165 | 20220 | 4.62 | 9.24 | 10.78 | 3.08 | -79.89 | 3074.1 | 0.17 |
| 4 | 56 | -5492 | -5733 | -299 | 587 | -151 | 18706 | 4.62 | 9.24 | 10.78 | 3.08 | -73.90 | 2843.9 | 0.15 |
| 5 | 56 | -5354 | -5570 | -291 | 568 | -147 | 18198 | 4.62 | 9.24 | 10.78 | 3.08 | -71.90 | 2766.7 | 0.15 |
| apost= 1.54 aant= 6.16 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 83 | -5899 | -6906 | -321 | 646 | -76 | 18395 | 4.62 | 9.24 | 9.24 | 3.08 | -76.84 | 3242.4 | 0.19 |
| 4 | 83 | -5492 | -6370 | -299 | 587 | -68 | 17023 | 4.62 | 9.24 | 9.24 | 3.08 | -71.11 | 3000.6 | 0.17 |
| 5 | 83 | -5354 | -6191 | -291 | 568 | -66 | 16564 | 4.62 | 9.24 | 9.24 | 3.08 | -69.19 | 2919.6 | 0.16 |
| apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 111 | -5899 | -7590 | -321 | 646 | 14 | 16380 | 9.24 | 4.62 | 9.24 | 3.08 | -68.42 | 2887.2 | 0.16 |
| 4 | 111 | -5492 | -7007 | -299 | 587 | 15 | 15163 | 9.24 | 4.62 | 9.24 | 3.08 | -63.34 | 2672.8 | 0.15 |
| 5 | 111 | -5354 | -6812 | -291 | 568 | 15 | 14756 | 9.24 | 4.62 | 9.24 | 3.08 | -61.64 | 2601.0 | 0.14 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 139 | -5899 | -8273 | -321 | 646 | 103 | 14174 | 9.24 | 4.62 | 9.24 | 3.08 | -59.21 | 2498.4 | 0.14 |
| 4 | 139 | -5492 | -7645 | -299 | 587 | 98 | 13127 | 9.24 | 4.62 | 9.24 | 3.08 | -54.84 | 2313.8 | 0.12 |
| 5 | 139 | -5354 | -7434 | -291 | 568 | 96 | 12776 | 9.24 | 4.62 | 9.24 | 3.08 | -53.37 | 2251.9 | 0.12 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 167 | -5899 | -8956 | -321 | 646 | 192 | 11779 | 9.24 | 4.62 | 9.24 | 3.08 | -49.20 | 2076.2 | 0.10 |
| 4 | 167 | -5492 | -8282 | -299 | 587 | 181 | 10913 | 9.24 | 4.62 | 9.24 | 3.08 | -45.59 | 1923.5 | 0.09 |
| 5 | 167 | -5354 | -8055 | -291 | 568 | 177 | 10623 | 9.24 | 4.62 | 9.24 | 3.08 | -44.38 | 1872.4 | 0.09 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 195 | -5899 | -9640 | -321 | 646 | 281 | 9193 | 9.24 | 4.62 | 9.24 | 4.62 | -37.17 | 1614.3 | 0.07 |
| 4 | 195 | -5492 | -8919 | -299 | 587 | 264 | 8522 | 9.24 | 4.62 | 9.24 | 4.62 | -34.45 | 1496.4 | 0.06 |
| 5 | 195 | -5354 | -8676 | -291 | 568 | 258 | 8297 | 9.24 | 4.62 | 9.24 | 4.62 | -19.85 | 167.5 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 222 | -5899 | -10323 | -321 | 646 | 371 | 6417 | 9.24 | 4.62 | 9.24 | 4.62 | -15.35 | 129.6 | 0.00 |
| 4 | 222 | -5492 | -9556 | -299 | 587 | 347 | 5954 | 9.24 | 4.62 | 9.24 | 4.62 | -14.25 | 120.2 | 0.00 |
| 5 | 222 | -5354 | -9297 | -291 | 568 | 339 | 5799 | 9.24 | 4.62 | 9.24 | 4.62 | -13.87 | 117.1 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 250 | -5899 | -11007 | -321 | 646 | 460 | 3451 | 9.24 | 4.62 | 9.24 | 4.62 | -8.26 | 69.7 | 0.00 |
| 4 | 250 | -5492 | -10193 | -299 | 587 | 430 | 3209 | 9.24 | 4.62 | 9.24 | 4.62 | -7.68 | 64.8 | 0.00 |
| 5 | 250 | -5354 | -9919 | -291 | 568 | 420 | 3127 | 9.24 | 4.62 | 9.24 | 4.62 | -7.48 | 63.2 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 278 | -5899 | -11690 | -321 | 646 | 549 | 295 | 9.24 | 4.62 | 9.24 | 4.62 | -0.71 | 6.0 | 0.00 |
| 4 | 278 | -5492 | -10830 | -299 | 587 | 513 | 287 | 9.24 | 4.62 | 9.24 | 4.62 | -0.69 | 5.8 | 0.00 |
| 5 | 278 | -5354 | -10540 | -291 | 568 | 501 | 284 | 9.24 | 4.62 | 9.24 | 4.62 | -0.68 | 5.7 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 3**  NI 15616  NF 16338  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  11.3750  5.3550  23.7300  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -3687 | 10920 | -730 | -505 | -1651 | -8031 | 3.08 | 9.24 | 4.62 | 9.24 | -19.22 | 162.2 | 0.00 |
| 4 | 0 | -3437 | 10140 | -679 | -475 | -1534 | -7478 | 3.08 | 9.24 | 4.62 | 9.24 | -17.89 | 151.0 | 0.00 |
| 5 | 0 | -3354 | 9883 | -662 | -465 | -1494 | -7293 | 3.08 | 9.24 | 4.62 | 9.24 | -17.45 | 147.3 | 0.00 |
| apost= --  aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 37 | -3687 | 10050 | -730 | -505 | -1384 | -4187 | 3.08 | 9.24 | 4.62 | 9.24 | -10.02 | 84.6 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 37 | -3437 | 9329 | -679 | -475 | -1285 | -3909 | 3.08 | 9.24 | 4.62 | 9.24 | -9.35 | 78.9 | 0.00 |
| 5 | 37 | -3354 | 9092 | -662 | -465 | -1251 | -3816 | 3.08 | 9.24 | 4.62 | 9.24 | -9.13 | 77.0 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 73 | -3687 | 9181 | -730 | -505 | -1116 | -662 | 3.08 | 9.24 | 4.62 | 9.24 | -1.58 | 13.4 | 0.00 |
| 4 | 73 | -3437 | 8519 | -679 | -475 | -1036 | -637 | 3.08 | 9.24 | 4.62 | 9.24 | -1.52 | 12.9 | 0.00 |
| 5 | 73 | -3354 | 8301 | -662 | -465 | -1009 | -628 | 3.08 | 9.24 | 4.62 | 9.24 | -1.50 | 12.7 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -3687 | 8311 | -730 | -505 | -849 | 2544 | 3.08 | 9.24 | 9.24 | 3.08 | -6.16 | 51.6 | 0.00 |
| 4 | 110 | -3437 | 7708 | -679 | -475 | -787 | 2338 | 3.08 | 9.24 | 9.24 | 3.08 | -5.66 | 47.5 | 0.00 |
| 5 | 110 | -3354 | 7509 | -662 | -465 | -766 | 2269 | 3.08 | 9.24 | 9.24 | 3.08 | -5.50 | 46.1 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | -3687 | 7441 | -730 | -505 | -581 | 5431 | 3.08 | 9.24 | 9.24 | 3.08 | -13.16 | 110.2 | 0.00 |
| 4 | 147 | -3437 | 6898 | -679 | -475 | -538 | 5016 | 3.08 | 9.24 | 9.24 | 3.08 | -12.15 | 101.8 | 0.00 |
| 5 | 147 | -3354 | 6718 | -662 | -465 | -523 | 4876 | 3.08 | 9.24 | 9.24 | 3.08 | -11.81 | 99.0 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 183 | -3687 | 6571 | -730 | -505 | -314 | 7999 | 3.08 | 9.24 | 9.24 | 3.08 | -19.38 | 162.3 | 0.00 |
| 4 | 183 | -3437 | 6087 | -679 | -475 | -289 | 7396 | 3.08 | 9.24 | 9.24 | 3.08 | -17.92 | 150.1 | 0.00 |
| 5 | 183 | -3354 | 5927 | -662 | -465 | -281 | 7194 | 3.08 | 9.24 | 9.24 | 3.08 | -17.43 | 146.0 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 220 | -3687 | 5702 | -730 | -505 | -47 | 10249 | 3.08 | 9.24 | 9.24 | 3.08 | -42.81 | 1806.6 | 0.08 |
| 4 | 220 | -3437 | 5276 | -679 | -475 | -40 | 9479 | 3.08 | 9.24 | 9.24 | 3.08 | -39.60 | 1670.9 | 0.07 |
| 5 | 220 | -3354 | 5136 | -662 | -465 | -38 | 9221 | 3.08 | 9.24 | 9.24 | 3.08 | -38.52 | 1625.4 | 0.07 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 257 | -3687 | 4832 | -730 | -505 | 221 | 12180 | 9.24 | 3.08 | 9.24 | 3.08 | -50.88 | 2146.9 | 0.11 |
| 4 | 257 | -3437 | 4466 | -679 | -475 | 209 | 11265 | 9.24 | 3.08 | 9.24 | 3.08 | -47.06 | 1985.7 | 0.10 |
| 5 | 257 | -3354 | 4345 | -662 | -465 | 205 | 10958 | 9.24 | 3.08 | 9.24 | 3.08 | -45.78 | 1931.6 | 0.09 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 293 | -3687 | 3962 | -730 | -505 | 488 | 13792 | 9.24 | 3.08 | 9.24 | 3.08 | -57.62 | 2431.1 | 0.13 |
| 4 | 293 | -3437 | 3655 | -679 | -475 | 458 | 12754 | 9.24 | 3.08 | 9.24 | 3.08 | -53.28 | 2248.1 | 0.12 |
| 5 | 293 | -3354 | 3553 | -662 | -465 | 447 | 12406 | 9.24 | 3.08 | 9.24 | 3.08 | -51.82 | 2186.7 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 330 | -3687 | 3093 | -730 | -505 | 756 | 15085 | 9.24 | 3.08 | 9.24 | 3.08 | -63.02 | 2659.1 | 0.15 |
| 4 | 330 | -3437 | 2845 | -679 | -475 | 707 | 13946 | 9.24 | 3.08 | 9.24 | 3.08 | -58.26 | 2458.1 | 0.13 |
| 5 | 330 | -3354 | 2762 | -662 | -465 | 690 | 13563 | 9.24 | 3.08 | 9.24 | 3.08 | -56.66 | 2390.7 | 0.13 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 367 | -3687 | 2223 | -730 | -505 | 1023 | 16060 | 9.24 | 9.24 | 9.24 | 3.08 | -67.09 | 2830.8 | 0.16 |
| 4 | 367 | -3437 | 2034 | -679 | -475 | 956 | 14840 | 9.24 | 9.24 | 9.24 | 3.08 | -61.99 | 2615.8 | 0.14 |
| 5 | 367 | -3354 | 1971 | -662 | -465 | 933 | 14430 | 9.24 | 9.24 | 9.24 | 3.08 | -60.28 | 2543.5 | 0.14 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 8** NI 16338 NF 16339 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 11.3750 5.3550 23.7300 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -3358 | -930 | -1542 | 1034 | -1580 | 15900 | 9.24 | 9.24 | 9.24 | 3.08 | -66.42 | 2802.6 | 0.16 |
| 4 | 0 | -3134 | -820 | -1422 | 947 | -1454 | 14690 | 9.24 | 9.24 | 9.24 | 3.08 | -61.37 | 2589.3 | 0.14 |
| 5 | 0 | -3058 | -783 | -1384 | 918 | -1414 | 14290 | 9.24 | 9.24 | 9.24 | 3.08 | -59.69 | 2518.8 | 0.14 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -3358 | -1725 | -1542 | 1034 | -1064 | 15455 | 4.62 | 9.24 | 9.24 | 3.08 | -64.56 | 2724.2 | 0.15 |
| 4 | 33 | -3134 | -1561 | -1422 | 947 | -978 | 14291 | 4.62 | 9.24 | 9.24 | 3.08 | -59.70 | 2519.1 | 0.14 |
| 5 | 33 | -3058 | -1506 | -1384 | 918 | -951 | 13906 | 4.62 | 9.24 | 9.24 | 3.08 | -58.09 | 2451.2 | 0.13 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 67 | -3358 | -2519 | -1542 | 1034 | -547 | 14744 | 4.62 | 9.24 | 9.24 | 3.08 | -61.59 | 2598.9 | 0.14 |
| 4 | 67 | -3134 | -2302 | -1422 | 947 | -501 | 13644 | 4.62 | 9.24 | 9.24 | 3.08 | -57.00 | 2405.0 | 0.13 |
| 5 | 67 | -3058 | -2229 | -1384 | 918 | -487 | 13280 | 4.62 | 9.24 | 9.24 | 3.08 | -55.48 | 2340.9 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 100 | -3358 | -3314 | -1542 | 1034 | -31 | 13767 | 4.62 | 9.24 | 9.24 | 3.08 | -57.51 | 2426.6 | 0.13 |
| 4 | 100 | -3134 | -3043 | -1422 | 947 | -25 | 12749 | 4.62 | 9.24 | 9.24 | 3.08 | -53.26 | 2247.3 | 0.12 |
| 5 | 100 | -3058 | -2952 | -1384 | 918 | -24 | 12412 | 4.62 | 9.24 | 9.24 | 3.08 | -51.85 | 2187.8 | 0.11 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 134 | -3358 | -4109 | -1542 | 1034 | 486 | 12524 | 9.24 | 4.62 | 9.24 | 3.08 | -52.32 | 2207.5 | 0.11 |
| 4 | 134 | -3134 | -3784 | -1422 | 947 | 451 | 11606 | 9.24 | 4.62 | 9.24 | 3.08 | -48.48 | 2045.8 | 0.10 |
| 5 | 134 | -3058 | -3675 | -1384 | 918 | 440 | 11302 | 9.24 | 4.62 | 9.24 | 3.08 | -47.21 | 1992.2 | 0.10 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 167 | -3358 | -4903 | -1542 | 1034 | 1002 | 11014 | 9.24 | 4.62 | 9.24 | 3.08 | -46.01 | 1941.4 | 0.09 |
| 4 | 167 | -3134 | -4525 | -1422 | 947 | 927 | 10215 | 9.24 | 4.62 | 9.24 | 3.08 | -42.67 | 1800.5 | 0.08 |
| 5 | 167 | -3058 | -4398 | -1384 | 918 | 903 | 9950 | 9.24 | 4.62 | 9.24 | 3.08 | -41.56 | 1753.8 | 0.08 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 201 | -3358 | -5698 | -1542 | 1034 | 1519 | 9238 | 9.24 | 4.62 | 9.24 | 3.08 | -38.59 | 1628.4 | 0.07 |
| 4 | 201 | -3134 | -5265 | -1422 | 947 | 1404 | 8575 | 9.24 | 4.62 | 9.24 | 3.08 | -35.82 | 1511.6 | 0.06 |
| 5 | 201 | -3058 | -5121 | -1384 | 918 | 1366 | 8355 | 9.24 | 4.62 | 9.24 | 3.08 | -34.90 | 1472.7 | 0.06 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 234 | -3358 | -6493 | -1542 | 1034 | 2035 | 7196 | 9.24 | 4.62 | 9.24 | 4.62 | -17.22 | 145.3 | 0.00 |
| 4 | 234 | -3134 | -6006 | -1422 | 947 | 1880 | 6688 | 9.24 | 4.62 | 9.24 | 4.62 | -16.00 | 135.0 | 0.00 |
| 5 | 234 | -3058 | -5844 | -1384 | 918 | 1830 | 6519 | 9.24 | 4.62 | 9.24 | 4.62 | -15.60 | 131.6 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 268 | -3358 | -7288 | -1542 | 1034 | 2552 | 4888 | 9.24 | 4.62 | 9.24 | 4.62 | -11.70 | 98.7 | 0.00 |
| 4 | 268 | -3134 | -6747 | -1422 | 947 | 2356 | 4552 | 9.24 | 4.62 | 9.24 | 4.62 | -10.89 | 91.9 | 0.00 |
| 5 | 268 | -3058 | -6567 | -1384 | 918 | 2293 | 4440 | 9.24 | 4.62 | 9.24 | 4.62 | -10.62 | 89.7 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 301 | -3358 | -8082 | -1542 | 1034 | 3068 | 2314 | 9.24 | 4.62 | 9.24 | 4.62 | -5.54 | 46.7 | 0.00 |
| 4 | 301 | -3134 | -7488 | -1422 | 947 | 2833 | 2168 | 9.24 | 4.62 | 9.24 | 4.62 | -5.19 | 43.8 | 0.00 |
| 5 | 301 | -3058 | -7290 | -1384 | 918 | 2757 | 2119 | 9.24 | 4.62 | 9.24 | 4.62 | -5.07 | 42.8 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 335 | -3358 | -8877 | -1542 | 1034 | 3585 | -526 | 9.24 | 4.62 | 4.62 | 9.24 | -1.26 | 10.6 | 0.00 |
| 4 | 335 | -3134 | -8229 | -1422 | 947 | 3309 | -464 | 9.24 | 4.62 | 4.62 | 9.24 | -1.11 | 9.4 | 0.00 |
| 5 | 335 | -3058 | -8013 | -1384 | 918 | 3220 | -444 | 9.24 | 4.62 | 4.62 | 9.24 | -1.06 | 9.0 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4**  NI 15704  NF 16338  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.7000  5.5080  20.2080  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -2422 | 6039 | 542 | 205 | 835 | -5634 | 4.62 | 3.08 | 3.08 | 6.16 | -82.12 | 2746.3 | 0.16 |
| 4 | 0 | -2248 | 5575 | 502 | 193 | 774 | -5231 | 4.62 | 3.08 | 3.08 | 6.16 | -76.24 | 2549.9 | 0.15 |
| 5 | 0 | -2189 | 5421 | 489 | 189 | 754 | -5097 | 4.62 | 3.08 | 3.08 | 6.16 | -74.29 | 2484.5 | 0.14 |

apost= 1.54 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -2422 | 5336 | 542 | 205 | 646 | -3655 | 4.62 | 3.08 | 3.08 | 4.62 | -58.89 | 2348.6 | 0.15 |
| 4 | 35 | -2248 | 4929 | 502 | 193 | 599 | -3403 | 4.62 | 3.08 | 3.08 | 4.62 | -54.83 | 2186.9 | 0.14 |
| 5 | 35 | -2189 | 4794 | 489 | 189 | 584 | -3319 | 4.62 | 3.08 | 3.08 | 4.62 | -53.49 | 2133.0 | 0.13 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -2422 | 4632 | 542 | 205 | 458 | -1920 | 4.62 | 3.08 | 3.08 | 4.62 | -18.53 | 146.7 | 0.00 |
| 4 | 70 | -2248 | 4283 | 502 | 193 | 425 | -1800 | 4.62 | 3.08 | 3.08 | 4.62 | -17.37 | 137.5 | 0.00 |
| 5 | 70 | -2189 | 4168 | 489 | 189 | 414 | -1759 | 4.62 | 3.08 | 3.08 | 4.62 | -16.98 | 134.4 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 104 | -2422 | 3929 | 542 | 205 | 269 | -430 | 4.62 | 3.08 | 3.08 | 4.62 | -4.15 | 32.9 | 0.00 |
| 4 | 104 | -2248 | 3637 | 502 | 193 | 250 | -421 | 4.62 | 3.08 | 3.08 | 4.62 | -4.06 | 32.2 | 0.00 |
| 5 | 104 | -2189 | 3541 | 489 | 189 | 243 | -418 | 4.62 | 3.08 | 3.08 | 4.62 | -4.03 | 31.9 | 0.00 |

apost= 1.54 aant= --  ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 139 | -2422 | 3225 | 542 | 205 | 80 | 815 | 4.62 | 3.08 | 4.62 | 3.08 | -7.86 | 62.2 | 0.00 |
| 4 | 139 | -2248 | 2992 | 502 | 193 | 75 | 733 | 4.62 | 3.08 | 4.62 | 3.08 | -7.07 | 56.0 | 0.00 |
| 5 | 139 | -2189 | 2914 | 489 | 189 | 73 | 706 | 4.62 | 3.08 | 4.62 | 3.08 | -6.81 | 53.9 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 174 | -2422 | 2522 | 542 | 205 | -108 | 1815 | 3.08 | 4.62 | 4.62 | 3.08 | -17.52 | 138.7 | 0.00 |
| 4 | 174 | -2248 | 2346 | 502 | 193 | -100 | 1662 | 3.08 | 4.62 | 4.62 | 3.08 | -16.04 | 127.0 | 0.00 |
| 5 | 174 | -2189 | 2288 | 489 | 189 | -97 | 1611 | 3.08 | 4.62 | 4.62 | 3.08 | -15.55 | 123.1 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 209 | -2422 | 1818 | 542 | 205 | -297 | 2570 | 3.08 | 4.62 | 4.62 | 3.08 | -41.42 | 1651.7 | 0.09 |

```
 4   209   -2248    1700     502      193    -275    2366     3.08   4.62   4.62   3.08    -38.12    1520.3    0.08
 5   209   -2189    1661     489      189    -267    2298     3.08   4.62   4.62   3.08    -37.04    1477.1    0.07

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   244   -2422    1115     542      205    -486    3081     3.08   4.62   4.62   3.08    -49.64    1979.7    0.12
 4   244   -2248    1054     502      193    -450    2845     3.08   4.62   4.62   3.08    -45.84    1828.3    0.11
 5   244   -2189    1034     489      189    -438    2767     3.08   4.62   4.62   3.08    -44.60    1778.5    0.10

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   278   -2422     412     542      205    -675    3346     3.08   4.62   4.62   3.08    -53.92    2150.4    0.13
 4   278   -2248     408     502      193    -624    3099     3.08   4.62   4.62   3.08    -49.95    1991.9    0.12
 5   278   -2189     408     489      189    -608    3018     3.08   4.62   4.62   3.08    -48.64    1939.8    0.12

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   313   -2422    -292     542      205    -863    3367     3.08   4.62   4.62   3.08    -54.26    2163.8    0.13
 4   313   -2248    -238     502      193    -799    3129     3.08   4.62   4.62   3.08    -50.42    2010.9    0.12
 5   313   -2189    -219     489      189    -778    3051     3.08   4.62   4.62   3.08    -49.17    1960.9    0.12

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   348   -2422    -995     542      205   -1052    3143     4.62   4.62   4.62   3.08    -50.65    2019.8    0.12
 4   348   -2248    -884     502      193    -974    2934     4.62   4.62   4.62   3.08    -47.28    1885.5    0.11
 5   348   -2189    -846     489      189    -949    2866     4.62   4.62   4.62   3.08    -46.18    1841.8    0.11

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

ASTA NUM. 5     NI 16338    NF 15760    SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.7000     5.5080  20.2080  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP       Sc          Sf       w
       --    -------------------     ------------------   ---------------------------      --------------      --
      cm              kg                     kg*m                      cm²                      kg/cm²          mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -1609    2158     871       44    1552    1604     4.62   4.62   4.62   3.08    -15.48     122.6    0.00
 4     0   -1505    1971     806       44    1436    1513     4.62   4.62   4.62   3.08    -14.60     115.6    0.00
 5     0   -1468    1908     785       44    1399    1483     4.62   4.62   4.62   3.08    -14.31     113.3    0.00

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3    36   -1609    1438     871       44    1242    2245     4.62   3.08   4.62   3.08    -36.17    1442.7    0.07
 4    36   -1505    1310     806       44    1149    2098     4.62   3.08   4.62   3.08    -33.80    1348.1    0.06
 5    36   -1468    1266     785       44    1119    2049     4.62   3.08   4.62   3.08    -33.01    1316.6    0.06

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3    71   -1609     717     871       44     931    2629     4.62   3.08   4.62   3.08    -42.36    1689.5    0.09
 4    71   -1505     648     806       44     861    2447     4.62   3.08   4.62   3.08    -39.42    1572.3    0.08
 5    71   -1468     624     785       44     839    2386     4.62   3.08   4.62   3.08    -38.44    1533.2    0.08

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   107   -1609      -3     871       44     621    2756     4.62   3.08   4.62   3.08    -44.41    1771.2    0.10
 4   107   -1505     -13     806       44     574    2560     4.62   3.08   4.62   3.08    -41.25    1644.9    0.09
 5   107   -1468     -18     785       44     560    2494     4.62   3.08   4.62   3.08    -40.19    1602.7    0.09

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   143   -1609    -724     871       44     310    2627     4.62   3.08   4.62   3.08    -42.32    1687.9    0.09
 4   143   -1505    -675     806       44     287    2437     4.62   3.08   4.62   3.08    -39.27    1565.9    0.08
 5   143   -1468    -660     785       44     280    2373     4.62   3.08   4.62   3.08    -38.24    1525.1    0.08

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   178   -1609   -1444     871       44      -0    2240     3.08   3.08   4.62   3.08    -36.10    1439.6    0.07
 4   178   -1505   -1336     806       44      -1    2078     3.08   3.08   4.62   3.08    -33.49    1335.4    0.06
 5   178   -1468   -1302     785       44      -0    2023     3.08   3.08   4.62   3.08    -19.53     154.6    0.00

apost= --      aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   214   -1609   -2165     871       44    -310    1597     3.08   4.62   4.62   3.08    -15.41     122.0    0.00
 4   214   -1505   -1998     806       44    -288    1483     3.08   4.62   4.62   3.08    -14.32     113.3    0.00
 5   214   -1468   -1943     785       44    -280    1445     3.08   4.62   4.62   3.08    -13.95     110.4    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   250   -1609   -2886     871       44    -621     697     3.08   4.62   4.62   3.08     -6.72      53.2    0.00
 4   250   -1505   -2659     806       44    -575     653     3.08   4.62   4.62   3.08     -6.30      49.9    0.00
 5   250   -1468   -2585     785       44    -560     638     3.08   4.62   4.62   3.08     -6.16      48.7    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   285   -1609   -3606     871       44    -931    -460     3.08   4.62   3.08   4.62     -4.44      35.2    0.00
 4   285   -1505   -3321     806       44    -862    -413     3.08   4.62   3.08   4.62     -3.99      31.6    0.00
 5   285   -1468   -3227     785       44    -839    -398     3.08   4.62   3.08   4.62     -3.84      30.4    0.00
```

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 321 | -1609 | -4327 | 871 | 44 | -1242 | -1874 | 3.08 | 4.62 | 3.08 | 4.62 | -18.09 | 143.2 | 0.00 |
| 4 | 321 | -1505 | -3983 | 806 | 44 | -1150 | -1715 | 3.08 | 4.62 | 3.08 | 4.62 | -16.55 | 131.0 | 0.00 |
| 5 | 321 | -1468 | -3869 | 785 | 44 | -1119 | -1663 | 3.08 | 4.62 | 3.08 | 4.62 | -16.05 | 127.1 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 357 | -1609 | -5047 | 871 | 44 | -1552 | -3545 | 3.08 | 4.62 | 3.08 | 4.62 | -57.13 | 2278.2 | 0.14 |
| 4 | 357 | -1505 | -4644 | 806 | 44 | -1437 | -3253 | 3.08 | 4.62 | 3.08 | 4.62 | -52.42 | 2090.5 | 0.13 |
| 5 | 357 | -1468 | -4511 | 785 | 44 | -1399 | -3157 | 3.08 | 4.62 | 3.08 | 4.62 | -50.87 | 2028.8 | 0.12 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 13**  NI 15760  NF 16340  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  11.9600  5.6304  20.5904  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -1510 | 4744 | -476 | -267 | -839 | -3744 | 3.08 | 4.62 | 3.08 | 4.62 | -60.33 | 2406.1 | 0.16 |
| 4 | 0 | -1414 | 4354 | -438 | -249 | -771 | -3433 | 3.08 | 4.62 | 3.08 | 4.62 | -55.32 | 2206.2 | 0.14 |
| 5 | 0 | -1380 | 4225 | -425 | -243 | -749 | -3331 | 3.08 | 4.62 | 3.08 | 4.62 | -53.68 | 2140.7 | 0.13 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -1510 | 4014 | -476 | -267 | -670 | -2191 | 3.08 | 4.62 | 3.08 | 4.62 | -35.30 | 1407.8 | 0.07 |
| 4 | 35 | -1414 | 3684 | -438 | -249 | -616 | -2007 | 3.08 | 4.62 | 3.08 | 4.62 | -19.38 | 153.4 | 0.00 |
| 5 | 35 | -1380 | 3575 | -425 | -243 | -598 | -1948 | 3.08 | 4.62 | 3.08 | 4.62 | -18.80 | 148.8 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | -1510 | 3283 | -476 | -267 | -501 | -896 | 3.08 | 4.62 | 3.08 | 4.62 | -8.65 | 68.5 | 0.00 |
| 4 | 71 | -1414 | 3013 | -438 | -249 | -460 | -820 | 3.08 | 4.62 | 3.08 | 4.62 | -7.91 | 62.6 | 0.00 |
| 5 | 71 | -1380 | 2924 | -425 | -243 | -447 | -795 | 3.08 | 4.62 | 3.08 | 4.62 | -7.67 | 60.7 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 106 | -1510 | 2553 | -476 | -267 | -332 | 139 | 3.08 | 4.62 | 4.62 | 3.08 | -1.34 | 10.6 | 0.00 |
| 4 | 106 | -1414 | 2343 | -438 | -249 | -305 | 130 | 3.08 | 4.62 | 4.62 | 3.08 | -1.26 | 9.9 | 0.00 |
| 5 | 106 | -1380 | 2274 | -425 | -243 | -296 | 127 | 3.08 | 4.62 | 4.62 | 3.08 | -1.23 | 9.7 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | -1510 | 1822 | -476 | -267 | -163 | 915 | 3.08 | 4.62 | 4.62 | 3.08 | -8.83 | 69.9 | 0.00 |
| 4 | 142 | -1414 | 1672 | -438 | -249 | -150 | 842 | 3.08 | 4.62 | 4.62 | 3.08 | -8.13 | 64.3 | 0.00 |
| 5 | 142 | -1380 | 1623 | -425 | -243 | -146 | 818 | 3.08 | 4.62 | 4.62 | 3.08 | -7.90 | 62.5 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 177 | -1510 | 1092 | -476 | -267 | 6 | 1432 | 3.08 | 3.08 | 4.62 | 3.08 | -13.82 | 109.4 | 0.00 |
| 4 | 177 | -1414 | 1002 | -438 | -249 | 5 | 1316 | 3.08 | 3.08 | 4.62 | 3.08 | -12.70 | 100.6 | 0.00 |
| 5 | 177 | -1380 | 973 | -425 | -243 | 5 | 1278 | 3.08 | 3.08 | 4.62 | 3.08 | -12.34 | 97.7 | 0.00 |

apost= --  aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | -1510 | 362 | -476 | -267 | 175 | 1690 | 4.62 | 3.08 | 4.62 | 3.08 | -16.31 | 129.1 | 0.00 |
| 4 | 213 | -1414 | 331 | -438 | -249 | 161 | 1552 | 4.62 | 3.08 | 4.62 | 3.08 | -14.98 | 118.6 | 0.00 |
| 5 | 213 | -1380 | 322 | -425 | -243 | 156 | 1508 | 4.62 | 3.08 | 4.62 | 3.08 | -14.55 | 115.2 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 248 | -1510 | -369 | -476 | -267 | 344 | 1688 | 4.62 | 3.08 | 4.62 | 3.08 | -16.29 | 129.0 | 0.00 |
| 4 | 248 | -1414 | -340 | -438 | -249 | 316 | 1551 | 4.62 | 3.08 | 4.62 | 3.08 | -14.97 | 118.5 | 0.00 |
| 5 | 248 | -1380 | -328 | -425 | -243 | 307 | 1507 | 4.62 | 3.08 | 4.62 | 3.08 | -14.54 | 115.1 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | -1510 | -1099 | -476 | -267 | 513 | 1428 | 4.62 | 3.08 | 4.62 | 3.08 | -13.78 | 109.1 | 0.00 |
| 4 | 284 | -1414 | -1010 | -438 | -249 | 471 | 1311 | 4.62 | 3.08 | 4.62 | 3.08 | -12.66 | 100.2 | 0.00 |
| 5 | 284 | -1380 | -979 | -425 | -243 | 458 | 1275 | 4.62 | 3.08 | 4.62 | 3.08 | -12.30 | 97.4 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 319 | -1510 | -1830 | -476 | -267 | 682 | 908 | 4.62 | 3.08 | 4.62 | 3.08 | -8.77 | 69.4 | 0.00 |
| 4 | 319 | -1414 | -1680 | -438 | -249 | 627 | 834 | 4.62 | 3.08 | 4.62 | 3.08 | -8.05 | 63.7 | 0.00 |
| 5 | 319 | -1380 | -1629 | -425 | -243 | 609 | 812 | 4.62 | 3.08 | 4.62 | 3.08 | -7.84 | 62.0 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | -1510 | -2560 | -476 | -267 | 851 | 130 | 4.62 | 4.62 | 4.62 | 3.08 | -1.25 | 9.9 | 0.00 |
| 4 | 355 | -1414 | -2351 | -438 | -249 | 782 | 119 | 4.62 | 4.62 | 4.62 | 3.08 | -1.15 | 9.1 | 0.00 |
| 5 | 355 | -1380 | -2280 | -425 | -243 | 759 | 119 | 4.62 | 4.62 | 4.62 | 3.08 | -1.14 | 9.1 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 14**  NI 16340  NF 15929  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 11.9600 5.6304 20.5904 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -1853 | 2604 | -320 | -13 | -719 | 432 | 4.62 | 4.62 | 4.62 | 3.08 | -4.17 | 33.0 | 0.00 |
| 4 | 0 | -1724 | 2391 | -296 | -15 | -664 | 395 | 4.62 | 4.62 | 4.62 | 3.08 | -3.81 | 30.2 | 0.00 |
| 5 | 0 | -1679 | 2319 | -287 | -16 | -646 | 386 | 4.62 | 4.62 | 4.62 | 3.08 | -3.73 | 29.5 | 0.00 |
| apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 37 | -1853 | 1851 | -320 | -13 | -602 | 1247 | 3.08 | 4.62 | 4.62 | 3.08 | -12.03 | 95.3 | 0.00 |
| 4 | 37 | -1724 | 1700 | -296 | -15 | -556 | 1143 | 3.08 | 4.62 | 4.62 | 3.08 | -11.04 | 87.4 | 0.00 |
| 5 | 37 | -1679 | 1648 | -287 | -16 | -541 | 1112 | 3.08 | 4.62 | 4.62 | 3.08 | -10.73 | 85.0 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 73 | -1853 | 1098 | -320 | -13 | -485 | 1786 | 3.08 | 4.62 | 4.62 | 3.08 | -17.24 | 136.5 | 0.00 |
| 4 | 73 | -1724 | 1008 | -296 | -15 | -448 | 1639 | 3.08 | 4.62 | 4.62 | 3.08 | -15.82 | 125.2 | 0.00 |
| 5 | 73 | -1679 | 977 | -287 | -16 | -435 | 1592 | 3.08 | 4.62 | 4.62 | 3.08 | -15.37 | 121.6 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 110 | -1853 | 344 | -320 | -13 | -368 | 2049 | 3.08 | 4.62 | 4.62 | 3.08 | -33.03 | 1317.1 | 0.06 |
| 4 | 110 | -1724 | 317 | -296 | -15 | -340 | 1881 | 3.08 | 4.62 | 4.62 | 3.08 | -18.16 | 143.7 | 0.00 |
| 5 | 110 | -1679 | 307 | -287 | -16 | -330 | 1827 | 3.08 | 4.62 | 4.62 | 3.08 | -17.63 | 139.6 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 146 | -1853 | -409 | -320 | -13 | -251 | 2038 | 3.08 | 4.62 | 4.62 | 3.08 | -19.67 | 155.7 | 0.00 |
| 4 | 146 | -1724 | -375 | -296 | -15 | -232 | 1871 | 3.08 | 4.62 | 4.62 | 3.08 | -18.05 | 142.9 | 0.00 |
| 5 | 146 | -1679 | -364 | -287 | -16 | -225 | 1816 | 3.08 | 4.62 | 4.62 | 3.08 | -17.53 | 138.8 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 183 | -1853 | -1162 | -320 | -13 | -134 | 1750 | 3.08 | 4.62 | 4.62 | 3.08 | -16.89 | 133.7 | 0.00 |
| 4 | 183 | -1724 | -1066 | -296 | -15 | -124 | 1607 | 3.08 | 4.62 | 4.62 | 3.08 | -15.51 | 122.8 | 0.00 |
| 5 | 183 | -1679 | -1035 | -287 | -16 | -120 | 1560 | 3.08 | 4.62 | 4.62 | 3.08 | -15.06 | 119.2 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 219 | -1853 | -1915 | -320 | -13 | -17 | 1187 | 3.08 | 4.62 | 4.62 | 3.08 | -11.46 | 90.7 | 0.00 |
| 4 | 219 | -1724 | -1757 | -296 | -15 | -15 | 1091 | 3.08 | 4.62 | 4.62 | 3.08 | -10.53 | 83.3 | 0.00 |
| 5 | 219 | -1679 | -1706 | -287 | -16 | -15 | 1059 | 3.08 | 4.62 | 4.62 | 3.08 | -10.22 | 80.9 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 256 | -1853 | -2668 | -320 | -13 | 100 | 349 | 4.62 | 3.08 | 4.62 | 3.08 | -3.36 | 26.6 | 0.00 |
| 4 | 256 | -1724 | -2449 | -296 | -15 | 93 | 321 | 4.62 | 3.08 | 4.62 | 3.08 | -3.10 | 24.6 | 0.00 |
| 5 | 256 | -1679 | -2377 | -287 | -16 | 90 | 312 | 4.62 | 3.08 | 4.62 | 3.08 | -3.01 | 23.8 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 293 | -1853 | -3422 | -320 | -13 | 216 | -765 | 4.62 | 3.08 | 3.08 | 4.62 | -7.39 | 58.5 | 0.00 |
| 4 | 293 | -1724 | -3140 | -296 | -15 | 201 | -701 | 4.62 | 3.08 | 3.08 | 4.62 | -6.76 | 53.5 | 0.00 |
| 5 | 293 | -1679 | -3047 | -287 | -16 | 195 | -680 | 4.62 | 3.08 | 3.08 | 4.62 | -6.57 | 52.0 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 329 | -1853 | -4175 | -320 | -13 | 333 | -2155 | 4.62 | 3.08 | 3.08 | 4.62 | -34.73 | 1384.9 | 0.06 |
| 4 | 329 | -1724 | -3832 | -296 | -15 | 309 | -1976 | 4.62 | 3.08 | 3.08 | 4.62 | -19.07 | 151.0 | 0.00 |
| 5 | 329 | -1679 | -3718 | -287 | -16 | 300 | -1918 | 4.62 | 3.08 | 3.08 | 4.62 | -18.51 | 146.5 | 0.00 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 366 | -1853 | -4928 | -320 | -13 | 450 | -3820 | 4.62 | 3.08 | 3.08 | 4.62 | -61.56 | 2454.9 | 0.16 |
| 4 | 366 | -1724 | -4523 | -296 | -15 | 417 | -3504 | 4.62 | 3.08 | 3.08 | 4.62 | -56.46 | 2251.8 | 0.14 |
| 5 | 366 | -1679 | -4389 | -287 | -16 | 406 | -3401 | 4.62 | 3.08 | 3.08 | 4.62 | -54.80 | 2185.7 | 0.14 |
| apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 6** NI 15759 NF 16339 SEZ. Rp B= 70.0 H= 80.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 14.0000 22.1000 10.4040 46.5040 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -8103 | 20010 | 2687 | -375 | 4485 | -4768 | 18.47 | 3.08 | 9.24 | 18.47 | -4.98 | 42.5 | 0.00 |
| 4 | 0 | -7579 | 18610 | 2496 | -362 | 4161 | -4310 | 18.47 | 3.08 | 9.24 | 18.47 | -4.50 | 38.4 | 0.00 |
| 5 | 0 | -7407 | 18150 | 2433 | -357 | 4055 | -4159 | 18.47 | 3.08 | 9.24 | 18.47 | -4.35 | 37.1 | 0.00 |

apost= 15.39 aant= --  ainf= 6.16 asup= 15.39  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -8103 | 18353 | 2687 | -375 | 3527 | 2072 | 18.47 | 3.08 | 18.47 | 9.24 | -2.16 | 18.5 | 0.00 |
| 4 | 36 | -7579 | 17064 | 2496 | -362 | 3271 | 2050 | 18.47 | 3.08 | 18.47 | 9.24 | -2.14 | 18.3 | 0.00 |
| 5 | 36 | -7407 | 16640 | 2433 | -357 | 3188 | 2041 | 18.47 | 3.08 | 18.47 | 9.24 | -2.13 | 18.2 | 0.00 |

apost= 15.39 aant= --  ainf= 15.39 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | -8103 | 16695 | 2687 | -375 | 2569 | 8320 | 18.47 | 3.08 | 18.47 | 9.24 | -8.69 | 74.2 | 0.00 |
| 4 | 71 | -7579 | 15517 | 2496 | -362 | 2381 | 7859 | 18.47 | 3.08 | 18.47 | 9.24 | -8.21 | 70.1 | 0.00 |
| 5 | 71 | -7407 | 15130 | 2433 | -357 | 2320 | 7702 | 18.47 | 3.08 | 18.47 | 9.24 | -8.05 | 68.7 | 0.00 |

apost= 15.39 aant= --  ainf= 15.39 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | -8103 | 15038 | 2687 | -375 | 1611 | 13978 | 18.47 | 3.08 | 18.47 | 3.08 | -14.98 | 125.9 | 0.00 |
| 4 | 107 | -7579 | 13971 | 2496 | -362 | 1491 | 13117 | 18.47 | 3.08 | 18.47 | 3.08 | -14.06 | 118.2 | 0.00 |
| 5 | 107 | -7407 | 13620 | 2433 | -357 | 1453 | 12825 | 18.47 | 3.08 | 18.47 | 3.08 | -13.74 | 115.5 | 0.00 |

apost= 15.39 aant= --  ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 143 | -8103 | 13380 | 2687 | -375 | 653 | 19044 | 18.47 | 3.08 | 18.47 | 3.08 | -35.64 | 1465.6 | 0.06 |
| 4 | 143 | -7579 | 12424 | 2496 | -362 | 601 | 17823 | 18.47 | 3.08 | 18.47 | 3.08 | -19.10 | 160.6 | 0.00 |
| 5 | 143 | -7407 | 12110 | 2433 | -357 | 586 | 17411 | 18.47 | 3.08 | 18.47 | 3.08 | -18.66 | 156.8 | 0.00 |

apost= 15.39 aant= --  ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | -8103 | 11723 | 2687 | -375 | -305 | 23519 | 3.08 | 18.47 | 18.47 | 3.08 | -44.01 | 1810.0 | 0.09 |
| 4 | 178 | -7579 | 10878 | 2496 | -362 | -288 | 21977 | 3.08 | 18.47 | 18.47 | 3.08 | -41.13 | 1691.4 | 0.08 |
| 5 | 178 | -7407 | 10600 | 2433 | -357 | -281 | 21458 | 3.08 | 18.47 | 18.47 | 3.08 | -40.15 | 1651.4 | 0.08 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 214 | -8103 | 10066 | 2687 | -375 | -1263 | 27404 | 3.08 | 18.47 | 18.47 | 3.08 | -51.28 | 2109.0 | 0.12 |
| 4 | 214 | -7579 | 9332 | 2496 | -362 | -1178 | 25581 | 3.08 | 18.47 | 18.47 | 3.08 | -47.87 | 1968.7 | 0.11 |
| 5 | 214 | -7407 | 9090 | 2433 | -357 | -1149 | 24966 | 3.08 | 18.47 | 18.47 | 3.08 | -46.72 | 1921.4 | 0.10 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 250 | -8103 | 8408 | 2687 | -375 | -2221 | 30697 | 3.08 | 18.47 | 18.47 | 3.08 | -57.44 | 2362.4 | 0.14 |
| 4 | 250 | -7579 | 7785 | 2496 | -362 | -2068 | 28633 | 3.08 | 18.47 | 18.47 | 3.08 | -53.58 | 2203.6 | 0.13 |
| 5 | 250 | -7407 | 7580 | 2433 | -357 | -2016 | 27937 | 3.08 | 18.47 | 18.47 | 3.08 | -52.28 | 2150.0 | 0.12 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 285 | -8103 | 6751 | 2687 | -375 | -3179 | 33399 | 3.08 | 18.47 | 18.47 | 3.08 | -62.50 | 2570.4 | 0.16 |
| 4 | 285 | -7579 | 6239 | 2496 | -362 | -2958 | 31133 | 3.08 | 18.47 | 18.47 | 3.08 | -58.26 | 2396.0 | 0.14 |
| 5 | 285 | -7407 | 6070 | 2433 | -357 | -2883 | 30370 | 3.08 | 18.47 | 18.47 | 3.08 | -56.83 | 2337.2 | 0.14 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 321 | -8103 | 5093 | 2687 | -375 | -4137 | 35510 | 3.08 | 18.47 | 18.47 | 3.08 | -66.45 | 2732.8 | 0.17 |
| 4 | 321 | -7579 | 4692 | 2496 | -362 | -3848 | 33082 | 3.08 | 18.47 | 18.47 | 3.08 | -61.91 | 2546.0 | 0.15 |
| 5 | 321 | -7407 | 4560 | 2433 | -357 | -3751 | 32264 | 3.08 | 18.47 | 18.47 | 3.08 | -60.38 | 2483.0 | 0.15 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 357 | -8103 | 3436 | 2687 | -375 | -5095 | 37030 | 3.08 | 18.47 | 18.47 | 3.08 | -69.30 | 2849.8 | 0.18 |
| 4 | 357 | -7579 | 3146 | 2496 | -362 | -4738 | 34480 | 3.08 | 18.47 | 18.47 | 3.08 | -64.52 | 2653.6 | 0.16 |
| 5 | 357 | -7407 | 3050 | 2433 | -357 | -4618 | 33620 | 3.08 | 18.47 | 18.47 | 3.08 | -62.91 | 2587.4 | 0.16 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 7**  NI 16339  NF 15705  SEZ.  Rp  B= 70.0  H= 80.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 14.0000  22.1000  10.4040  46.5040  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -6561 | -5442 | -671 | -901 | -1510 | 36000 | 3.08 | 18.47 | 18.47 | 3.08 | -67.37 | 2770.6 | 0.17 |
| 4 | 0 | -6157 | -5083 | -638 | -826 | -1429 | 33530 | 3.08 | 18.47 | 18.47 | 3.08 | -62.75 | 2580.5 | 0.16 |
| 5 | 0 | -6023 | -4963 | -625 | -801 | -1398 | 32710 | 3.08 | 18.47 | 18.47 | 3.08 | -61.21 | 2517.4 | 0.15 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -6561 | -7061 | -671 | -901 | -1276 | 33824 | 3.08 | 18.47 | 18.47 | 3.08 | -63.30 | 2603.1 | 0.16 |
| 4 | 35 | -6157 | -6593 | -638 | -826 | -1207 | 31498 | 3.08 | 18.47 | 18.47 | 3.08 | -58.94 | 2424.1 | 0.14 |
| 5 | 35 | -6023 | -6437 | -625 | -801 | -1180 | 30725 | 3.08 | 18.47 | 18.47 | 3.08 | -57.50 | 2364.6 | 0.14 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -6561 | -8680 | -671 | -901 | -1043 | 31085 | 3.08 | 18.47 | 18.47 | 3.08 | -58.17 | 2392.3 | 0.14 |
| 4 | 70 | -6157 | -8102 | -638 | -826 | -985 | 28941 | 3.08 | 18.47 | 18.47 | 3.08 | -54.16 | 2227.3 | 0.13 |
| 5 | 70 | -6023 | -7910 | -625 | -801 | -963 | 28228 | 3.08 | 18.47 | 18.47 | 3.08 | -52.82 | 2172.4 | 0.12 |

apost= --  aant= 15.39 ainf= 15.39 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 104 | -6561 | -10298 | -671 | -901 | -809 | 27783 | 3.08 | 18.47 | 18.47 | 3.08 | -51.99 | 2138.2 | 0.12 |
| 4 | 104 | -6157 | -9612 | -638 | -826 | -763 | 25858 | 3.08 | 18.47 | 18.47 | 3.08 | -48.39 | 1990.0 | 0.11 |
| 5 | 104 | -6023 | -9384 | -625 | -801 | -745 | 25217 | 3.08 | 18.47 | 18.47 | 3.08 | -47.19 | 1940.7 | 0.10 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 139 | -6561 | -11917 | -671 | -901 | -576 | 23917 | 3.08 | 18.47 | 18.47 | 3.08 | -44.76 | 1840.6 | 0.10 |
| 4 | 139 | -6157 | -11122 | -638 | -826 | -541 | 22249 | 3.08 | 18.47 | 18.47 | 3.08 | -41.64 | 1712.3 | 0.08 |
| 5 | 139 | -6023 | -10858 | -625 | -801 | -528 | 21694 | 3.08 | 18.47 | 18.47 | 3.08 | -40.60 | 1669.6 | 0.08 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 174 | -6561 | -13536 | -671 | -901 | -342 | 19488 | 3.08 | 18.47 | 18.47 | 3.08 | -36.47 | 1499.8 | 0.07 |
| 4 | 174 | -6157 | -12632 | -638 | -826 | -319 | 18115 | 3.08 | 18.47 | 18.47 | 3.08 | -19.41 | 163.2 | 0.00 |
| 5 | 174 | -6023 | -12332 | -625 | -801 | -310 | 17657 | 3.08 | 18.47 | 18.47 | 3.08 | -18.92 | 159.1 | 0.00 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 209 | -6561 | -15155 | -671 | -901 | -109 | 14495 | 3.08 | 18.47 | 18.47 | 3.08 | -15.53 | 130.6 | 0.00 |
| 4 | 209 | -6157 | -14141 | -638 | -826 | -97 | 13455 | 3.08 | 18.47 | 18.47 | 3.08 | -14.42 | 121.2 | 0.00 |
| 5 | 209 | -6023 | -13805 | -625 | -801 | -92 | 13108 | 3.08 | 18.47 | 18.47 | 3.08 | -14.05 | 118.1 | 0.00 |

apost= -- aant= 15.39 ainf= 15.39 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 244 | -6561 | -16774 | -671 | -901 | 125 | 8939 | 18.47 | 3.08 | 18.47 | 3.08 | -9.58 | 80.5 | 0.00 |
| 4 | 244 | -6157 | -15651 | -638 | -826 | 125 | 8270 | 18.47 | 3.08 | 18.47 | 3.08 | -8.86 | 74.5 | 0.00 |
| 5 | 244 | -6023 | -15279 | -625 | -801 | 125 | 8045 | 18.47 | 3.08 | 18.47 | 3.08 | -8.62 | 72.5 | 0.00 |

apost= 15.39 aant= -- ainf= 15.39 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 278 | -6561 | -18392 | -671 | -901 | 358 | 2819 | 18.47 | 3.08 | 18.47 | 9.24 | -2.95 | 25.1 | 0.00 |
| 4 | 278 | -6157 | -17161 | -638 | -826 | 347 | 2559 | 18.47 | 3.08 | 18.47 | 9.24 | -2.67 | 22.8 | 0.00 |
| 5 | 278 | -6023 | -16753 | -625 | -801 | 343 | 2470 | 18.47 | 3.08 | 18.47 | 9.24 | -2.58 | 22.0 | 0.00 |

apost= 15.39 aant= -- ainf= 15.39 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 313 | -6561 | -20011 | -671 | -901 | 592 | -3864 | 18.47 | 3.08 | 9.24 | 18.47 | -4.04 | 34.4 | 0.00 |
| 4 | 313 | -6157 | -18670 | -638 | -826 | 569 | -3678 | 18.47 | 3.08 | 9.24 | 18.47 | -3.84 | 32.8 | 0.00 |
| 5 | 313 | -6023 | -18226 | -625 | -801 | 560 | -3619 | 18.47 | 3.08 | 9.24 | 18.47 | -3.78 | 32.3 | 0.00 |

apost= 15.39 aant= -- ainf= 6.16 asup= 15.39 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 348 | -6561 | -21630 | -671 | -901 | 825 | -11110 | 18.47 | 3.08 | 9.24 | 18.47 | -11.61 | 99.0 | 0.00 |
| 4 | 348 | -6157 | -20180 | -638 | -826 | 791 | -10440 | 18.47 | 3.08 | 9.24 | 18.47 | -10.91 | 93.1 | 0.00 |
| 5 | 348 | -6023 | -19700 | -625 | -801 | 778 | -10220 | 18.47 | 3.08 | 9.24 | 18.47 | -10.68 | 91.1 | 0.00 |

apost= 15.39 aant= -- ainf= 6.16 asup= 15.39 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 9** NI 15700 NF 15761 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 29.2500 13.7700 50.0200 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -3470 | 17950 | -36 | -27 | 199 | -9711 | 9.24 | 3.08 | 6.16 | 9.24 | -38.03 | 1699.4 | 0.08 |
| 4 | 0 | -3221 | 16500 | -34 | -24 | 182 | -9018 | 9.24 | 3.08 | 6.16 | 9.24 | -35.32 | 1578.2 | 0.07 |
| 5 | 0 | -3137 | 16020 | -33 | -24 | 175 | -8786 | 9.24 | 3.08 | 6.16 | 9.24 | -34.41 | 1537.6 | 0.06 |

apost= 6.16 aant= -- ainf= 3.08 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -3470 | 14426 | -36 | -27 | 224 | 1694 | 9.24 | 3.08 | 9.24 | 4.62 | -4.05 | 34.2 | 0.00 |
| 4 | 70 | -3221 | 13267 | -34 | -24 | 205 | 1471 | 9.24 | 3.08 | 9.24 | 4.62 | -3.52 | 29.7 | 0.00 |
| 5 | 70 | -3137 | 12884 | -33 | -24 | 198 | 1397 | 9.24 | 3.08 | 9.24 | 4.62 | -3.34 | 28.2 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 141 | -3470 | 10902 | -36 | -27 | 250 | 10616 | 9.24 | 3.08 | 9.24 | 3.08 | -44.35 | 1871.3 | 0.09 |
| 4 | 141 | -3221 | 10034 | -34 | -24 | 229 | 9682 | 9.24 | 3.08 | 9.24 | 3.08 | -40.44 | 1706.5 | 0.08 |
| 5 | 141 | -3137 | 9748 | -33 | -24 | 222 | 9370 | 9.24 | 3.08 | 9.24 | 3.08 | -39.14 | 1651.6 | 0.07 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 211 | -3470 | 7378 | -36 | -27 | 275 | 17055 | 9.24 | 3.08 | 9.24 | 3.08 | -71.25 | 3006.2 | 0.17 |
| 4 | 211 | -3221 | 6801 | -34 | -24 | 253 | 15614 | 9.24 | 3.08 | 9.24 | 3.08 | -65.23 | 2752.3 | 0.15 |
| 5 | 211 | -3137 | 6612 | -33 | -24 | 245 | 15134 | 9.24 | 3.08 | 9.24 | 3.08 | -63.22 | 2667.5 | 0.15 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 282 | -3470 | 3854 | -36 | -27 | 300 | 21011 | 9.24 | 3.08 | 10.78 | 3.08 | -83.01 | 3194.3 | 0.17 |
| 4 | 282 | -3221 | 3568 | -34 | -24 | 277 | 19269 | 9.24 | 3.08 | 10.78 | 3.08 | -76.13 | 2929.5 | 0.16 |
| 5 | 282 | -3137 | 3476 | -33 | -24 | 269 | 18687 | 9.24 | 3.08 | 10.78 | 3.08 | -73.83 | 2841.1 | 0.15 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 352 | -3470 | 330 | -36 | -27 | 326 | 22483 | 9.24 | 3.08 | 12.32 | 3.08 | -84.73 | 3008.1 | 0.16 |
| 4 | 352 | -3221 | 335 | -34 | -24 | 300 | 20646 | 9.24 | 3.08 | 12.32 | 3.08 | -77.80 | 2762.2 | 0.14 |
| 5 | 352 | -3137 | 340 | -33 | -24 | 292 | 20032 | 9.24 | 3.08 | 12.32 | 3.08 | -75.49 | 2680.0 | 0.14 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 423 | -3470 | -3194 | -36 | -27 | 351 | 21473 | 9.24 | 3.08 | 12.32 | 3.08 | -80.92 | 2872.9 | 0.15 |
| 4 | 423 | -3221 | -2898 | -34 | -24 | 324 | 19744 | 9.24 | 3.08 | 12.32 | 3.08 | -74.40 | 2641.6 | 0.14 |
| 5 | 423 | -3137 | -2796 | -33 | -24 | 315 | 19166 | 9.24 | 3.08 | 12.32 | 3.08 | -72.23 | 2564.2 | 0.13 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 493 | -3470 | -6718 | -36 | -27 | 376 | 17979 | 9.24 | 3.08 | 9.24 | 3.08 | -75.11 | 3169.1 | 0.18 |
| 4 | 493 | -3221 | -6131 | -34 | -24 | 348 | 16564 | 9.24 | 3.08 | 9.24 | 3.08 | -69.20 | 2919.7 | 0.16 |
| 5 | 493 | -3137 | -5932 | -33 | -24 | 339 | 16090 | 9.24 | 3.08 | 9.24 | 3.08 | -67.22 | 2836.2 | 0.16 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 564 | -3470 | -10242 | -36 | -27 | 402 | 12002 | 9.24 | 3.08 | 9.24 | 3.08 | -50.14 | 2115.6 | 0.11 |
| 4 | 564 | -3221 | -9364 | -34 | -24 | 372 | 11107 | 9.24 | 3.08 | 9.24 | 3.08 | -46.40 | 1957.7 | 0.10 |
| 5 | 564 | -3137 | -9068 | -33 | -24 | 362 | 10805 | 9.24 | 3.08 | 9.24 | 3.08 | -45.14 | 1904.6 | 0.09 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 634 | -3470 | -13766 | -36 | -27 | 427 | 3542 | 9.24 | 3.08 | 9.24 | 4.62 | -8.48 | 71.5 | 0.00 |
| 4 | 634 | -3221 | -12597 | -34 | -24 | 395 | 3371 | 9.24 | 3.08 | 9.24 | 4.62 | -8.07 | 68.1 | 0.00 |
| 5 | 634 | -3137 | -12204 | -33 | -24 | 385 | 3311 | 9.24 | 3.08 | 9.24 | 4.62 | -7.92 | 66.8 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 705 | -3470 | -17290 | -36 | -27 | 453 | -7401 | 9.24 | 3.08 | 6.16 | 9.24 | -17.49 | 148.7 | 0.00 |
| 4 | 705 | -3221 | -15830 | -34 | -24 | 419 | -6643 | 9.24 | 3.08 | 6.16 | 9.24 | -15.70 | 133.5 | 0.00 |
| 5 | 705 | -3137 | -15340 | -33 | -24 | 409 | -6394 | 9.24 | 3.08 | 6.16 | 9.24 | -15.11 | 128.5 | 0.00 |

apost= 6.16 aant= --  ainf= 3.08 asup= 6.16  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 10**  NI 15758  NF 15706  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  29.2500  13.7700  50.0200  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -1292 | 17230 | -60 | 86 | -413 | -5951 | 3.08 | 9.24 | 6.16 | 9.24 | -14.07 | 119.6 | 0.00 |
| 4 | 0 | -1204 | 15770 | -61 | 85 | -404 | -5329 | 3.08 | 9.24 | 6.16 | 9.24 | -12.60 | 107.1 | 0.00 |
| 5 | 0 | -1174 | 15290 | -61 | 84 | -401 | -5125 | 3.08 | 9.24 | 6.16 | 9.24 | -12.11 | 103.0 | 0.00 |

apost= --  aant= 6.16 ainf= 3.08 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -1292 | 13706 | -60 | 86 | -371 | 4948 | 3.08 | 9.24 | 9.24 | 4.62 | -11.84 | 99.9 | 0.00 |
| 4 | 70 | -1204 | 12537 | -61 | 85 | -361 | 4646 | 3.08 | 9.24 | 9.24 | 4.62 | -11.12 | 93.8 | 0.00 |
| 5 | 70 | -1174 | 12154 | -61 | 84 | -358 | 4543 | 3.08 | 9.24 | 9.24 | 4.62 | -10.87 | 91.7 | 0.00 |

apost= --  aant= 6.16 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 141 | -1292 | 10182 | -60 | 86 | -329 | 13363 | 3.08 | 9.24 | 9.24 | 3.08 | -55.82 | 2355.4 | 0.13 |
| 4 | 141 | -1204 | 9304 | -61 | 85 | -319 | 12344 | 3.08 | 9.24 | 9.24 | 3.08 | -51.57 | 2175.8 | 0.11 |
| 5 | 141 | -1174 | 9018 | -61 | 84 | -315 | 12002 | 3.08 | 9.24 | 9.24 | 3.08 | -50.14 | 2115.5 | 0.11 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 211 | -1292 | 6658 | -60 | 86 | -286 | 19295 | 3.08 | 9.24 | 10.78 | 3.08 | -76.23 | 2933.5 | 0.16 |
| 4 | 211 | -1204 | 6071 | -61 | 85 | -276 | 17763 | 3.08 | 9.24 | 10.78 | 3.08 | -70.18 | 2700.5 | 0.14 |
| 5 | 211 | -1174 | 5882 | -61 | 84 | -272 | 17251 | 3.08 | 9.24 | 10.78 | 3.08 | -68.16 | 2622.6 | 0.14 |

apost= --  aant= 6.16 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 282 | -1292 | 3134 | -60 | 86 | -244 | 22745 | 3.08 | 9.24 | 12.32 | 3.08 | -85.71 | 3043.0 | 0.16 |
| 4 | 282 | -1204 | 2838 | -61 | 85 | -233 | 20904 | 3.08 | 9.24 | 12.32 | 3.08 | -78.78 | 2796.8 | 0.14 |
| 5 | 282 | -1174 | 2746 | -61 | 84 | -229 | 20290 | 3.08 | 9.24 | 12.32 | 3.08 | -76.46 | 2714.6 | 0.14 |

apost= --  aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 352 | -1292 | -390 | -60 | 86 | -202 | 23710 | 3.08 | 9.24 | 13.85 | 3.08 | -85.78 | 2834.8 | 0.14 |
| 4 | 352 | -1204 | -395 | -61 | 85 | -190 | 21768 | 3.08 | 9.24 | 13.85 | 3.08 | -78.75 | 2602.5 | 0.13 |
| 5 | 352 | -1174 | -390 | -61 | 84 | -186 | 21119 | 3.08 | 9.24 | 13.85 | 3.08 | -76.40 | 2525.0 | 0.12 |

apost= --  aant= 6.16 ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 423 | -1292 | -3914 | -60 | 86 | -160 | 22193 | 3.08 | 9.24 | 12.32 | 3.08 | -83.64 | 2969.3 | 0.15 |
| 4 | 423 | -1204 | -3628 | -61 | 85 | -148 | 20353 | 3.08 | 9.24 | 12.32 | 3.08 | -76.70 | 2723.0 | 0.14 |
| 5 | 423 | -1174 | -3526 | -61 | 84 | -144 | 19739 | 3.08 | 9.24 | 12.32 | 3.08 | -74.38 | 2640.9 | 0.14 |

apost= --  aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 493 | -1292 | -7438 | -60 | 86 | -117 | 18193 | 3.08 | 9.24 | 10.78 | 3.08 | -71.88 | 2765.9 | 0.15 |
| 4 | 493 | -1204 | -6861 | -61 | 85 | -105 | 16660 | 3.08 | 9.24 | 10.78 | 3.08 | -65.82 | 2532.8 | 0.13 |
| 5 | 493 | -1174 | -6662 | -61 | 84 | -101 | 16149 | 3.08 | 9.24 | 10.78 | 3.08 | -63.80 | 2455.1 | 0.13 |

apost= --  aant= 6.16 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 564 | -1292 | -10962 | -60 | 86 | -75 | 11709 | 3.08 | 9.24 | 9.24 | 3.08 | -48.92 | 2064.0 | 0.10 |
| 4 | 564 | -1204 | -10094 | -61 | 85 | -62 | 10688 | 3.08 | 9.24 | 9.24 | 3.08 | -44.65 | 1884.0 | 0.09 |
| 5 | 564 | -1174 | -9798 | -61 | 84 | -58 | 10349 | 3.08 | 9.24 | 9.24 | 3.08 | -43.23 | 1824.1 | 0.09 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 634 | -1292 | -14486 | -60 | 86 | -33 | 2743 | 3.08 | 9.24 | 9.24 | 4.62 | -6.56 | 55.4 | 0.00 |
| 4 | 634 | -1204 | -13327 | -61 | 85 | -20 | 2439 | 3.08 | 9.24 | 9.24 | 4.62 | -5.84 | 49.3 | 0.00 |
| 5 | 634 | -1174 | -12934 | -61 | 84 | -15 | 2339 | 3.08 | 9.24 | 9.24 | 4.62 | -5.60 | 47.2 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 705 | -1292 | -18010 | -60 | 86 | 9 | -8707 | 9.24 | 9.24 | 6.16 | 9.24 | -34.10 | 1523.7 | 0.06 |
| 4 | 705 | -1204 | -16560 | -61 | 85 | 23 | -8088 | 9.24 | 9.24 | 6.16 | 9.24 | -19.12 | 162.5 | 0.00 |
| 5 | 705 | -1174 | -16070 | -61 | 84 | 28 | -7880 | 9.24 | 9.24 | 6.16 | 9.24 | -18.63 | 158.3 | 0.00 |

apost= 6.16 aant= 6.16 ainf= 3.08 asup= 6.16 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 11** NI 15615 NF 16340 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.1550 5.7222 24.8772 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -3751 | 11350 | 412 | 240 | 980 | -7265 | 9.24 | 3.08 | 4.62 | 9.24 | -17.38 | 146.7 | 0.00 |
| 4 | 0 | -3514 | 10550 | 383 | 221 | 908 | -6782 | 9.24 | 3.08 | 4.62 | 9.24 | -16.23 | 136.9 | 0.00 |
| 5 | 0 | -3433 | 10280 | 373 | 215 | 884 | -6619 | 9.24 | 3.08 | 4.62 | 9.24 | -15.84 | 133.7 | 0.00 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -3751 | 10438 | 412 | 240 | 829 | -3274 | 9.24 | 3.08 | 4.62 | 9.24 | -7.83 | 66.1 | 0.00 |
| 4 | 37 | -3514 | 9701 | 383 | 221 | 768 | -3071 | 9.24 | 3.08 | 4.62 | 9.24 | -7.35 | 62.0 | 0.00 |
| 5 | 37 | -3433 | 9453 | 373 | 215 | 747 | -3002 | 9.24 | 3.08 | 4.62 | 9.24 | -7.18 | 60.6 | 0.00 |

apost= 6.16 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 73 | -3751 | 9525 | 412 | 240 | 678 | 384 | 9.24 | 3.08 | 9.24 | 4.62 | -0.92 | 7.7 | 0.00 |
| 4 | 73 | -3514 | 8852 | 383 | 221 | 628 | 330 | 9.24 | 3.08 | 9.24 | 4.62 | -0.79 | 6.7 | 0.00 |
| 5 | 73 | -3433 | 8625 | 373 | 215 | 611 | 312 | 9.24 | 3.08 | 9.24 | 4.62 | -0.75 | 6.3 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -3751 | 8613 | 412 | 240 | 527 | 3707 | 9.24 | 3.08 | 9.24 | 3.08 | -8.98 | 75.2 | 0.00 |
| 4 | 110 | -3514 | 8004 | 383 | 221 | 487 | 3419 | 9.24 | 3.08 | 9.24 | 3.08 | -8.28 | 69.4 | 0.00 |
| 5 | 110 | -3433 | 7798 | 373 | 215 | 474 | 3323 | 9.24 | 3.08 | 9.24 | 3.08 | -8.05 | 67.4 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 147 | -3751 | 7701 | 412 | 240 | 376 | 6696 | 9.24 | 3.08 | 9.24 | 3.08 | -16.22 | 135.9 | 0.00 |
| 4 | 147 | -3514 | 7155 | 383 | 221 | 347 | 6197 | 9.24 | 3.08 | 9.24 | 3.08 | -15.01 | 125.8 | 0.00 |
| 5 | 147 | -3433 | 6970 | 373 | 215 | 337 | 6030 | 9.24 | 3.08 | 9.24 | 3.08 | -14.61 | 122.4 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 183 | -3751 | 6789 | 412 | 240 | 225 | 9350 | 9.24 | 3.08 | 9.24 | 3.08 | -39.06 | 1648.1 | 0.07 |
| 4 | 183 | -3514 | 6306 | 383 | 221 | 207 | 8663 | 9.24 | 3.08 | 9.24 | 3.08 | -36.19 | 1527.1 | 0.06 |
| 5 | 183 | -3433 | 6142 | 373 | 215 | 201 | 8434 | 9.24 | 3.08 | 9.24 | 3.08 | -35.23 | 1486.6 | 0.06 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 220 | -3751 | 5876 | 412 | 240 | 74 | 11671 | 9.24 | 3.08 | 9.24 | 3.08 | -48.75 | 2057.1 | 0.10 |
| 4 | 220 | -3514 | 5457 | 383 | 221 | 67 | 10819 | 9.24 | 3.08 | 9.24 | 3.08 | -45.20 | 1907.0 | 0.09 |
| 5 | 220 | -3433 | 5315 | 373 | 215 | 64 | 10534 | 9.24 | 3.08 | 9.24 | 3.08 | -44.00 | 1856.8 | 0.09 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 257 | -3751 | 4964 | 412 | 240 | -77 | 13657 | 3.08 | 9.24 | 9.24 | 3.08 | -57.05 | 2407.2 | 0.13 |
| 4 | 257 | -3514 | 4608 | 383 | 221 | -74 | 12663 | 3.08 | 9.24 | 9.24 | 3.08 | -52.90 | 2232.1 | 0.12 |
| 5 | 257 | -3433 | 4488 | 373 | 215 | -73 | 12331 | 3.08 | 9.24 | 9.24 | 3.08 | -51.51 | 2173.5 | 0.11 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 293 | -3751 | 4052 | 412 | 240 | -228 | 15309 | 3.08 | 9.24 | 9.24 | 3.08 | -63.95 | 2698.4 | 0.15 |
| 4 | 293 | -3514 | 3760 | 383 | 221 | -214 | 14197 | 3.08 | 9.24 | 9.24 | 3.08 | -59.31 | 2502.4 | 0.14 |
| 5 | 293 | -3433 | 3660 | 373 | 215 | -209 | 13824 | 3.08 | 9.24 | 9.24 | 3.08 | -57.75 | 2436.7 | 0.13 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 330 | -3751 | 3139 | 412 | 240 | -379 | 16626 | 3.08 | 9.24 | 9.24 | 3.08 | -69.46 | 2930.7 | 0.17 |
| 4 | 330 | -3514 | 2911 | 383 | 221 | -354 | 15419 | 3.08 | 9.24 | 9.24 | 3.08 | -64.41 | 2717.8 | 0.15 |
| 5 | 330 | -3433 | 2832 | 373 | 215 | -346 | 15014 | 3.08 | 9.24 | 9.24 | 3.08 | -62.72 | 2646.4 | 0.15 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 367 | -3751 | 2227 | 412 | 240 | -530 | 17610 | 9.24 | 9.24 | 9.24 | 3.08 | -73.56 | 3104.0 | 0.18 |
| 4 | 367 | -3514 | 2062 | 383 | 221 | -495 | 16330 | 9.24 | 9.24 | 9.24 | 3.08 | -68.22 | 2878.4 | 0.16 |
| 5 | 367 | -3433 | 2005 | 373 | 215 | -483 | 15900 | 9.24 | 9.24 | 9.24 | 3.08 | -66.42 | 2802.6 | 0.16 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 12** NI 16340 NF 15987 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.1550 5.7222 24.8772 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -3594 | -2937 | 755 | -63 | 1040 | 17860 | 9.24 | 9.24 | 9.24 | 3.08 | -74.61 | 3148.1 | 0.18 |
| 4 | 0 | -3372 | -2681 | 692 | -55 | 952 | 16570 | 9.24 | 9.24 | 9.24 | 3.08 | -69.22 | 2920.7 | 0.17 |
| 5 | 0 | -3295 | -2594 | 672 | -52 | 923 | 16130 | 9.24 | 9.24 | 9.24 | 3.08 | -67.38 | 2843.2 | 0.16 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -3594 | -3863 | 755 | -63 | 759 | 16594 | 9.24 | 3.08 | 9.24 | 3.08 | -69.32 | 2925.0 | 0.17 |
| 4 | 37 | -3372 | -3544 | 692 | -55 | 694 | 15410 | 9.24 | 3.08 | 9.24 | 3.08 | -64.38 | 2716.3 | 0.15 |
| 5 | 37 | -3295 | -3436 | 672 | -52 | 672 | 15007 | 9.24 | 3.08 | 9.24 | 3.08 | -62.69 | 2645.2 | 0.15 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -3594 | -4790 | 755 | -63 | 478 | 14983 | 9.24 | 3.08 | 9.24 | 3.08 | -62.59 | 2641.0 | 0.15 |
| 4 | 74 | -3372 | -4407 | 692 | -55 | 436 | 13930 | 9.24 | 3.08 | 9.24 | 3.08 | -58.19 | 2455.3 | 0.13 |
| 5 | 74 | -3295 | -4277 | 672 | -52 | 422 | 13571 | 9.24 | 3.08 | 9.24 | 3.08 | -56.69 | 2392.0 | 0.13 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 112 | -3594 | -5716 | 755 | -63 | 197 | 13027 | 9.24 | 3.08 | 9.24 | 3.08 | -54.42 | 2296.2 | 0.12 |
| 4 | 112 | -3372 | -5270 | 692 | -55 | 178 | 12127 | 9.24 | 3.08 | 9.24 | 3.08 | -50.66 | 2137.6 | 0.11 |
| 5 | 112 | -3295 | -5119 | 672 | -52 | 172 | 11821 | 9.24 | 3.08 | 9.24 | 3.08 | -49.38 | 2083.6 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 149 | -3594 | -6642 | 755 | -63 | -84 | 10726 | 3.08 | 9.24 | 9.24 | 3.08 | -44.80 | 1890.5 | 0.09 |
| 4 | 149 | -3372 | -6133 | 692 | -55 | -80 | 10004 | 3.08 | 9.24 | 9.24 | 3.08 | -41.79 | 1763.3 | 0.08 |
| 5 | 149 | -3295 | -5960 | 672 | -52 | -78 | 9758 | 3.08 | 9.24 | 9.24 | 3.08 | -40.76 | 1719.9 | 0.08 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 186 | -3594 | -7569 | 755 | -63 | -366 | 8079 | 3.08 | 9.24 | 9.24 | 3.08 | -19.57 | 164.0 | 0.00 |
| 4 | 186 | -3372 | -6996 | 692 | -55 | -338 | 7559 | 3.08 | 9.24 | 9.24 | 3.08 | -18.31 | 153.4 | 0.00 |
| 5 | 186 | -3295 | -6802 | 672 | -52 | -329 | 7381 | 3.08 | 9.24 | 9.24 | 3.08 | -17.88 | 149.8 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 223 | -3594 | -8495 | 755 | -63 | -647 | 5088 | 3.08 | 9.24 | 9.24 | 3.08 | -12.32 | 103.3 | 0.00 |
| 4 | 223 | -3372 | -7858 | 692 | -55 | -596 | 4793 | 3.08 | 9.24 | 9.24 | 3.08 | -11.61 | 97.3 | 0.00 |
| 5 | 223 | -3295 | -7644 | 672 | -52 | -579 | 4691 | 3.08 | 9.24 | 9.24 | 3.08 | -11.36 | 95.2 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -3594 | -9421 | 755 | -63 | -928 | 1751 | 3.08 | 9.24 | 9.24 | 3.08 | -4.24 | 35.5 | 0.00 |
| 4 | 261 | -3372 | -8721 | 692 | -55 | -853 | 1705 | 3.08 | 9.24 | 9.24 | 3.08 | -4.13 | 34.6 | 0.00 |
| 5 | 261 | -3295 | -8485 | 672 | -52 | -829 | 1688 | 3.08 | 9.24 | 9.24 | 3.08 | -4.09 | 34.3 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 298 | -3594 | -10347 | 755 | -63 | -1209 | -1931 | 3.08 | 9.24 | 4.62 | 9.24 | -4.62 | 39.0 | 0.00 |
| 4 | 298 | -3372 | -9584 | 692 | -55 | -1111 | -1703 | 3.08 | 9.24 | 4.62 | 9.24 | -4.08 | 34.4 | 0.00 |
| 5 | 298 | -3295 | -9327 | 672 | -52 | -1079 | -1629 | 3.08 | 9.24 | 4.62 | 9.24 | -3.90 | 32.9 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 335 | -3594 | -11274 | 755 | -63 | -1490 | -5958 | 3.08 | 9.24 | 4.62 | 9.24 | -14.26 | 120.3 | 0.00 |
| 4 | 335 | -3372 | -10447 | 692 | -55 | -1369 | -5434 | 3.08 | 9.24 | 4.62 | 9.24 | -13.00 | 109.7 | 0.00 |
| 5 | 335 | -3295 | -10168 | 672 | -52 | -1330 | -5259 | 3.08 | 9.24 | 4.62 | 9.24 | -12.58 | 106.2 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 372 | -3594 | -12200 | 755 | -63 | -1771 | -10330 | 3.08 | 9.24 | 4.62 | 9.24 | -41.76 | 1813.9 | 0.08 |
| 4 | 372 | -3372 | -11310 | 692 | -55 | -1627 | -9485 | 3.08 | 9.24 | 4.62 | 9.24 | -38.35 | 1665.6 | 0.07 |
| 5 | 372 | -3295 | -11010 | 672 | -52 | -1580 | -9202 | 3.08 | 9.24 | 4.62 | 9.24 | -37.20 | 1615.9 | 0.07 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 15** NI 15985 NF 15873 SEZ. Rp B= 40.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 5.5000 15.6000 7.3440 28.4440 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |

```
 3     0   -3119   10920     398     -186    1662   -9397     7.70   3.08   4.62   7.70    -60.41    2558.4    0.15
 4     0   -2876   10060     369     -176    1539   -8632     7.70   3.08   4.62   7.70    -55.49    2350.1    0.14
 5     0   -2796    9780     359     -173    1499   -8378     7.70   3.08   4.62   7.70    -53.86    2281.0    0.13

apost= 4.62 aant= --      ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

 3    74   -3119    8827     398     -186    1369   -2133     7.70   3.08   3.08   7.70     -8.33      68.2    0.00
 4    74   -2876    8129     369     -176    1268   -1937     7.70   3.08   3.08   7.70     -7.56      61.9    0.00
 5    74   -2796    7903     359     -173    1235   -1872     7.70   3.08   3.08   7.70     -7.31      59.8    0.00

apost= 4.62 aant= --      ainf= --      asup= 4.62  ( e armatura base = 4 X 1.54 )

 3   147   -3119    6734     398     -186    1077    3592     7.70   3.08   7.70   3.08    -14.02     114.8    0.00
 4   147   -2876    6199     369     -176     997    3338     7.70   3.08   7.70   3.08    -13.03     106.7    0.00
 5   147   -2796    6026     359     -173     970    3252     7.70   3.08   7.70   3.08    -12.70     104.0    0.00

apost= 4.62 aant= --      ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   221   -3119    4641     398     -186     784    7775     7.70   3.08   7.70   3.08    -51.90    2124.9    0.12
 4   221   -2876    4268     369     -176     725    7191     7.70   3.08   7.70   3.08    -48.00    1965.2    0.11
 5   221   -2796    4149     359     -173     706    6996     7.70   3.08   7.70   3.08    -46.70    1911.8    0.10

apost= 4.62 aant= --      ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   294   -3119    2548     398     -186     492   10419     7.70   3.08   7.70   3.08    -69.55    2847.4    0.18
 4   294   -2876    2338     369     -176     454    9624     7.70   3.08   7.70   3.08    -64.24    2630.0    0.16
 5   294   -2796    2272     359     -173     442    9358     7.70   3.08   7.70   3.08    -62.47    2557.4    0.15

apost= 4.62 aant= --      ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   368   -3119     455     398     -186     199   11523     7.70   3.08   7.70   3.08    -76.91    3148.9    0.20
 4   368   -2876     407     369     -176     183   10635     7.70   3.08   7.70   3.08    -70.99    2906.5    0.18
 5   368   -2796     395     359     -173     177   10339     7.70   3.08   7.70   3.08    -69.02    2825.5    0.18

apost= 4.62 aant= --      ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   442   -3119   -1638     398     -186     -93   11086     3.08   7.70   7.70   3.08    -74.00    3029.6    0.19
 4   442   -2876   -1524     369     -176     -88   10226     3.08   7.70   7.70   3.08    -68.26    2794.6    0.17
 5   442   -2796   -1482     359     -173     -87    9939     3.08   7.70   7.70   3.08    -66.35    2716.2    0.17

apost= --      aant= 4.62 ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   515   -3119   -3731     398     -186    -386    9109     3.08   7.70   7.70   3.08    -60.80    2489.3    0.15
 4   515   -2876   -3454     369     -176    -359    8396     3.08   7.70   7.70   3.08    -56.04    2294.5    0.13
 5   515   -2796   -3359     359     -173    -351    8158     3.08   7.70   7.70   3.08    -54.46    2229.5    0.13

apost= --      aant= 4.62 ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   589   -3119   -5824     398     -186    -678    5592     3.08   7.70   7.70   3.08    -37.33    1528.2    0.07
 4   589   -2876   -5385     369     -176    -631    5145     3.08   7.70   7.70   3.08    -34.34    1406.0    0.06
 5   589   -2796   -5236     359     -173    -615    4996     3.08   7.70   7.70   3.08    -19.50     159.7    0.00

apost= --      aant= 4.62 ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   662   -3119   -7917     398     -186    -971     535     3.08   7.70   7.70   3.08     -2.09      17.1    0.00
 4   662   -2876   -7315     369     -176    -902     473     3.08   7.70   7.70   3.08     -1.85      15.1    0.00
 5   662   -2796   -7113     359     -173    -880     453     3.08   7.70   7.70   3.08     -1.77      14.5    0.00

apost= --      aant= 4.62 ainf= 4.62 asup= --       ( e armatura base = 4 X 1.54 )

 3   736   -3119  -10010     398     -186   -1263   -6063     3.08   7.70   4.62   7.70    -38.97    1650.7    0.08
 4   736   -2876   -9246     369     -176   -1173   -5620     3.08   7.70   4.62   7.70    -36.13    1530.1    0.07
 5   736   -2796   -8990     359     -173   -1144   -5472     3.08   7.70   4.62   7.70    -35.18    1489.8    0.07

apost= --      aant= 4.62 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

ASTA NUM. 17     NI 15960    NF 15936    SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125   7.1400     6.2424  18.1949  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz    [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
       --     ---------------------     ------------------   ----------------------------     -------------     --
      cm              kg                       kg*m                      cm²                      kg/cm²         mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -1556    6139     105       38     337   -3523     6.16   3.08   3.08   6.16    -15.70     129.5    0.00
 4     0   -1400    5510     102       33     330   -3173     6.16   3.08   3.08   6.16    -14.14     116.6    0.00
 5     0   -1347    5300     101       31     329   -3056     6.16   3.08   3.08   6.16    -13.62     112.3    0.00

apost= 3.08 aant= --      ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3    68   -1556    4897     105       38     266     243     6.16   3.08   6.16   3.08     -1.08       8.9    0.00
 4    68   -1400    4396     102       33     261     207     6.16   3.08   6.16   3.08     -0.92       7.6    0.00
 5    68   -1347    4229     101       31     260     195     6.16   3.08   6.16   3.08     -0.87       7.2    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   136   -1556    3656     105       38     194    3161     6.16   3.08   6.16   3.08    -14.09     116.2    0.00
 4   136   -1400    3282     102       33     191    2827     6.16   3.08   6.16   3.08    -12.60     103.9    0.00
```

```
 5   136   -1347    3157     101       31     191    2715     6.16   3.08   6.16   3.08    -12.10      99.8    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   205   -1556    2414     105       38     122    5232     6.16   3.08   6.16   3.08    -40.79    1779.2    0.09
 4   205   -1400    2168     102       33     122    4686     6.16   3.08   6.16   3.08    -36.53    1593.6    0.07
 5   205   -1347    2086     101       31     122    4504     6.16   3.08   6.16   3.08    -35.11    1531.8    0.07

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   273   -1556    1172     105       38      50    6455     6.16   3.08   6.16   3.08    -50.32    2195.3    0.12
 4   273   -1400    1054     102       33      52    5786     6.16   3.08   6.16   3.08    -45.10    1967.5    0.11
 5   273   -1347    1015     101       31      53    5562     6.16   3.08   6.16   3.08    -43.36    1891.5    0.10

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   341   -1556     -69     105       38     -22    6832     3.08   6.16   6.16   3.08    -53.26    2323.2    0.13
 4   341   -1400     -59     102       33     -17    6125     3.08   6.16   6.16   3.08    -47.75    2082.9    0.11
 5   341   -1347     -56     101       31     -16    5889     3.08   6.16   6.16   3.08    -45.91    2002.6    0.11

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   409   -1556   -1311     105       38     -94    6360     3.08   6.16   6.16   3.08    -49.58    2162.9    0.12
 4   409   -1400   -1173     102       33     -87    5704     3.08   6.16   6.16   3.08    -44.46    1939.7    0.10
 5   409   -1347   -1128     101       31     -85    5485     3.08   6.16   6.16   3.08    -42.76    1865.1    0.10

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   478   -1556   -2553     105       38    -166    5042     3.08   6.16   6.16   3.08    -39.30    1714.5    0.08
 4   478   -1400   -2287     102       33    -157    4523     3.08   6.16   6.16   3.08    -35.26    1538.0    0.07
 5   478   -1347   -2199     101       31    -154    4349     3.08   6.16   6.16   3.08    -19.39     159.8    0.00

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   546   -1556   -3795     105       38    -238    2875     3.08   6.16   6.16   3.08    -12.82     105.7    0.00
 4   546   -1400   -3401     102       33    -226    2581     3.08   6.16   6.16   3.08    -11.51      94.9    0.00
 5   546   -1347   -3270     101       31    -223    2483     3.08   6.16   6.16   3.08    -11.07      91.2    0.00

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   614   -1556   -5036     105       38    -310    -138     3.08   6.16   3.08   6.16     -0.62       5.1    0.00
 4   614   -1400   -4515     102       33    -296    -120     3.08   6.16   3.08   6.16     -0.54       4.4    0.00
 5   614   -1347   -4342     101       31    -292    -115     3.08   6.16   3.08   6.16     -0.51       4.2    0.00

apost= --      aant= 3.08 ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   682   -1556   -6278     105       38    -381   -3999     3.08   6.16   3.08   6.16    -17.82     147.0    0.00
 4   682   -1400   -5629     102       33    -365   -3582     3.08   6.16   3.08   6.16    -15.97     131.6    0.00
 5   682   -1347   -5413     101       31    -361   -3444     3.08   6.16   3.08   6.16    -15.35     126.6    0.00

apost= --      aant= 3.08 ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

ASTA NUM. 18     NI 16056    NF 16158    SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  12.4080     5.3856  22.6061  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
      --     ---------------------    ------------------   ----------------------------      --------------      --
      cm             kg                      kg*m                        cm²                      kg/cm²        mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -3538    8380     524      123    1026   -6196     6.16   3.08   3.08   6.16    -48.30    2107.1    0.12
 4     0   -3139    7642     498       87     972   -5468     6.16   3.08   3.08   6.16    -42.63    1859.5    0.10
 5     0   -3005    7397     489       74     954   -5224     6.16   3.08   3.08   6.16    -40.72    1776.5    0.09

apost= 3.08 aant= --      ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3    35   -3538    7590     524      123     843   -3406     6.16   3.08   3.08   6.16    -15.18     125.2    0.00
 4    35   -3139    6909     498       87     798   -2926     6.16   3.08   3.08   6.16    -13.04     107.5    0.00
 5    35   -3005    6682     489       74     783   -2765     6.16   3.08   3.08   6.16    -12.32     101.6    0.00

apost= 3.08 aant= --      ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3    70   -3538    6800     524      123     660    -893     6.16   3.08   3.08   6.16     -3.98      32.8    0.00
 4    70   -3139    6175     498       87     624    -641     6.16   3.08   3.08   6.16     -2.86      23.5    0.00
 5    70   -3005    5968     489       74     613    -555     6.16   3.08   3.08   6.16     -2.47      20.4    0.00

apost= 3.08 aant= --      ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   105   -3538    6011     524      123     477    1345     6.16   3.08   6.16   3.08     -5.99      49.4    0.00
 4   105   -3139    5442     498       87     451    1389     6.16   3.08   6.16   3.08     -6.19      51.0    0.00
 5   105   -3005    5253     489       74     442    1405     6.16   3.08   6.16   3.08     -6.26      51.6    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   140   -3538    5221     524      123     293    3307     6.16   3.08   6.16   3.08    -14.74     121.5    0.00
 4   140   -3139    4709     498       87     277    3162     6.16   3.08   6.16   3.08    -14.09     116.2    0.00
 5   140   -3005    4539     489       74     271    3116     6.16   3.08   6.16   3.08    -13.89     114.5    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )
```

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 175 | -3538 | 4431 | 524 | 123 | 110 | 4993 | 6.16 | 3.08 | 6.16 | 3.08 | -38.92 | 1697.8 | 0.08 |
| 4 | 175 | -3139 | 3975 | 498 | 87 | 103 | 4679 | 6.16 | 3.08 | 6.16 | 3.08 | -36.47 | 1591.0 | 0.07 |
| 5 | 175 | -3005 | 3824 | 489 | 74 | 100 | 4576 | 6.16 | 3.08 | 6.16 | 3.08 | -35.68 | 1556.3 | 0.07 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 210 | -3538 | 3641 | 524 | 123 | -73 | 6403 | 3.08 | 6.16 | 6.16 | 3.08 | -49.91 | 2177.3 | 0.12 |
| 4 | 210 | -3139 | 3242 | 498 | 87 | -71 | 5939 | 3.08 | 6.16 | 6.16 | 3.08 | -46.30 | 2019.8 | 0.11 |
| 5 | 210 | -3005 | 3110 | 489 | 74 | -70 | 5788 | 3.08 | 6.16 | 6.16 | 3.08 | -45.12 | 1968.2 | 0.11 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 245 | -3538 | 2851 | 524 | 123 | -256 | 7537 | 3.08 | 6.16 | 6.16 | 3.08 | -58.75 | 2562.9 | 0.15 |
| 4 | 245 | -3139 | 2509 | 498 | 87 | -245 | 6944 | 3.08 | 6.16 | 6.16 | 3.08 | -54.13 | 2361.4 | 0.14 |
| 5 | 245 | -3005 | 2395 | 489 | 74 | -241 | 6749 | 3.08 | 6.16 | 6.16 | 3.08 | -52.61 | 2295.2 | 0.13 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 279 | -3538 | 2061 | 524 | 123 | -439 | 8395 | 3.08 | 6.16 | 6.16 | 3.08 | -65.44 | 2854.7 | 0.18 |
| 4 | 279 | -3139 | 1775 | 498 | 87 | -419 | 7692 | 3.08 | 6.16 | 6.16 | 3.08 | -59.96 | 2615.8 | 0.16 |
| 5 | 279 | -3005 | 1681 | 489 | 74 | -412 | 7461 | 3.08 | 6.16 | 6.16 | 3.08 | -58.16 | 2537.3 | 0.15 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 314 | -3538 | 1272 | 524 | 123 | -622 | 8977 | 3.08 | 6.16 | 6.16 | 3.08 | -69.98 | 3052.7 | 0.19 |
| 4 | 314 | -3139 | 1042 | 498 | 87 | -593 | 8184 | 3.08 | 6.16 | 6.16 | 3.08 | -63.80 | 2783.2 | 0.17 |
| 5 | 314 | -3005 | 966 | 489 | 74 | -583 | 7923 | 3.08 | 6.16 | 6.16 | 3.08 | -61.77 | 2694.5 | 0.16 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 349 | -3538 | 482 | 524 | 123 | -805 | 9283 | 6.16 | 6.16 | 6.16 | 3.08 | -72.37 | 3156.9 | 0.20 |
| 4 | 349 | -3139 | 309 | 498 | 87 | -767 | 8420 | 6.16 | 6.16 | 6.16 | 3.08 | -65.64 | 2863.4 | 0.18 |
| 5 | 349 | -3005 | 251 | 489 | 74 | -754 | 8136 | 6.16 | 6.16 | 6.16 | 3.08 | -63.42 | 2766.8 | 0.17 |

apost= 3.08 aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 19** NI 16158 NF 16159 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 12.4080 5.3856 22.6061 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -3575 | -5979 | 442 | 200 | 579 | 9522 | 6.16 | 6.16 | 6.16 | 3.08 | -74.23 | 3238.1 | 0.21 |
| 4 | 0 | -3170 | -5595 | 415 | 180 | 544 | 8651 | 6.16 | 6.16 | 6.16 | 3.08 | -67.44 | 2941.9 | 0.18 |
| 5 | 0 | -3032 | -5473 | 406 | 175 | 534 | 8366 | 6.16 | 6.16 | 6.16 | 3.08 | -65.22 | 2845.0 | 0.18 |

apost= 3.08 aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -3575 | -6731 | 442 | 200 | 432 | 7409 | 6.16 | 3.08 | 6.16 | 3.08 | -57.76 | 2519.7 | 0.15 |
| 4 | 33 | -3170 | -6292 | 415 | 180 | 406 | 6674 | 6.16 | 3.08 | 6.16 | 3.08 | -52.03 | 2269.7 | 0.13 |
| 5 | 33 | -3032 | -6153 | 406 | 175 | 399 | 6433 | 6.16 | 3.08 | 6.16 | 3.08 | -50.15 | 2187.6 | 0.12 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 67 | -3575 | -7483 | 442 | 200 | 284 | 5047 | 6.16 | 3.08 | 6.16 | 3.08 | -39.34 | 1716.3 | 0.08 |
| 4 | 67 | -3170 | -6990 | 415 | 180 | 268 | 4465 | 6.16 | 3.08 | 6.16 | 3.08 | -34.81 | 1518.5 | 0.06 |
| 5 | 67 | -3032 | -6832 | 406 | 175 | 263 | 4274 | 6.16 | 3.08 | 6.16 | 3.08 | -19.05 | 157.1 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 100 | -3575 | -8235 | 442 | 200 | 137 | 2435 | 6.16 | 3.08 | 6.16 | 3.08 | -10.85 | 89.5 | 0.00 |
| 4 | 100 | -3170 | -7688 | 415 | 180 | 130 | 2024 | 6.16 | 3.08 | 6.16 | 3.08 | -9.02 | 74.4 | 0.00 |
| 5 | 100 | -3032 | -7512 | 406 | 175 | 128 | 1888 | 6.16 | 3.08 | 6.16 | 3.08 | -8.42 | 69.4 | 0.00 |

apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -3575 | -8987 | 442 | 200 | -10 | -428 | 3.08 | 6.16 | 3.08 | 6.16 | -1.91 | 15.7 | 0.00 |
| 4 | 133 | -3170 | -8385 | 415 | 180 | -8 | -649 | 3.08 | 6.16 | 3.08 | 6.16 | -2.89 | 23.8 | 0.00 |
| 5 | 133 | -3032 | -8192 | 406 | 175 | -7 | -723 | 3.08 | 6.16 | 3.08 | 6.16 | -3.22 | 26.6 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 166 | -3575 | -9740 | 442 | 200 | -157 | -3540 | 3.08 | 6.16 | 3.08 | 6.16 | -15.78 | 130.1 | 0.00 |
| 4 | 166 | -3170 | -9083 | 415 | 180 | -146 | -3554 | 3.08 | 6.16 | 3.08 | 6.16 | -15.84 | 130.6 | 0.00 |
| 5 | 166 | -3032 | -8872 | 406 | 175 | -142 | -3561 | 3.08 | 6.16 | 3.08 | 6.16 | -15.87 | 130.8 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 200 | -3575 | -10492 | 442 | 200 | -304 | -6902 | 3.08 | 6.16 | 3.08 | 6.16 | -53.81 | 2347.2 | 0.14 |
| 4 | 200 | -3170 | -9780 | 415 | 180 | -283 | -6691 | 3.08 | 6.16 | 3.08 | 6.16 | -52.16 | 2275.3 | 0.13 |
| 5 | 200 | -3032 | -9551 | 406 | 175 | -277 | -6624 | 3.08 | 6.16 | 3.08 | 6.16 | -51.64 | 2252.7 | 0.13 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 233 | -3575 | -11244 | 442 | 200 | -451 | -10514 | 3.08 | 6.16 | 3.08 | 7.70 | -75.64 | 2885.3 | 0.17 |
| 4 | 233 | -3170 | -10478 | 415 | 180 | -421 | -10060 | 3.08 | 6.16 | 3.08 | 7.70 | -72.37 | 2760.7 | 0.16 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 233 | -3032 | -10231 | 406 | 175 | -412 | -9914 | 3.08 | 6.16 | 3.08 | 7.70 | -71.32 | 2720.6 | 0.16 |

apost= -- aant= 3.08 ainf= -- asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | -3575 | -11996 | 442 | 200 | -598 | -14376 | 3.08 | 6.16 | 6.16 | 10.78 | -85.19 | 2831.8 | 0.15 |
| 4 | 266 | -3170 | -11175 | 415 | 180 | -559 | -13661 | 3.08 | 6.16 | 6.16 | 10.78 | -80.96 | 2691.0 | 0.14 |
| 5 | 266 | -3032 | -10911 | 406 | 175 | -547 | -13430 | 3.08 | 6.16 | 6.16 | 10.78 | -79.59 | 2645.4 | 0.13 |

apost= -- aant= 3.08 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 299 | -3575 | -12748 | 442 | 200 | -745 | -18488 | 3.08 | 6.16 | 6.16 | 12.32 | -104.98 | 3205.2 | 0.16 |
| 4 | 299 | -3170 | -11873 | 415 | 180 | -697 | -17495 | 3.08 | 6.16 | 6.16 | 12.32 | -99.34 | 3032.9 | 0.15 |
| 5 | 299 | -3032 | -11590 | 406 | 175 | -682 | -17172 | 3.08 | 6.16 | 6.16 | 12.32 | -97.51 | 2977.0 | 0.15 |

apost= -- aant= 3.08 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -3575 | -13500 | 442 | 200 | -892 | -20825 | 3.08 | 6.16 | 7.70 | 15.39 | -106.54 | 2904.7 | 0.13 |
| 4 | 333 | -3170 | -12570 | 415 | 180 | -835 | -19675 | 3.08 | 6.16 | 7.70 | 15.39 | -100.66 | 2744.2 | 0.13 |
| 5 | 333 | -3032 | -12270 | 406 | 175 | -818 | -19300 | 3.08 | 6.16 | 7.70 | 15.39 | -98.74 | 2691.9 | 0.12 |

apost= -- aant= 3.08 ainf= 4.62 asup= 12.32 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20** NI 16055 NF 16162 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 7.1280 5.3856 17.3261 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -1692 | 7523 | 121 | -19 | 107 | -7612 | 6.16 | 3.08 | 3.08 | 6.16 | -59.34 | 2588.6 | 0.16 |
| 4 | 0 | -1727 | 6662 | 111 | -23 | 89 | -6499 | 6.16 | 3.08 | 3.08 | 6.16 | -50.66 | 2210.1 | 0.13 |
| 5 | 0 | -1699 | 6373 | 108 | -26 | 85 | -6126 | 6.16 | 3.08 | 3.08 | 6.16 | -47.76 | 2083.3 | 0.12 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -1692 | 6918 | 121 | -19 | 65 | -5089 | 6.16 | 3.08 | 3.08 | 6.16 | -39.67 | 1730.7 | 0.08 |
| 4 | 35 | -1727 | 6113 | 111 | -23 | 50 | -4267 | 6.16 | 3.08 | 3.08 | 6.16 | -19.02 | 156.8 | 0.00 |
| 5 | 35 | -1699 | 5843 | 108 | -26 | 47 | -3992 | 6.16 | 3.08 | 3.08 | 6.16 | -17.79 | 146.7 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -1692 | 6312 | 121 | -19 | 22 | -2778 | 6.16 | 3.08 | 3.08 | 6.16 | -12.38 | 102.1 | 0.00 |
| 4 | 70 | -1727 | 5564 | 111 | -23 | 12 | -2228 | 6.16 | 3.08 | 3.08 | 6.16 | -9.93 | 81.9 | 0.00 |
| 5 | 70 | -1699 | 5313 | 108 | -26 | 9 | -2044 | 6.16 | 3.08 | 3.08 | 6.16 | -9.11 | 75.1 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 105 | -1692 | 5707 | 121 | -19 | -20 | -678 | 3.08 | 6.16 | 3.08 | 6.16 | -3.02 | 24.9 | 0.00 |
| 4 | 105 | -1727 | 5015 | 111 | -23 | -27 | -380 | 3.08 | 6.16 | 3.08 | 6.16 | -1.69 | 14.0 | 0.00 |
| 5 | 105 | -1699 | 4783 | 108 | -26 | -28 | -280 | 3.08 | 6.16 | 3.08 | 6.16 | -1.25 | 10.3 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 140 | -1692 | 5102 | 121 | -19 | -63 | 1210 | 3.08 | 6.16 | 6.16 | 3.08 | -5.39 | 44.5 | 0.00 |
| 4 | 140 | -1727 | 4466 | 111 | -23 | -66 | 1277 | 3.08 | 6.16 | 6.16 | 3.08 | -5.69 | 46.9 | 0.00 |
| 5 | 140 | -1699 | 4253 | 108 | -26 | -66 | 1298 | 3.08 | 6.16 | 6.16 | 3.08 | -5.78 | 47.7 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 175 | -1692 | 4497 | 121 | -19 | -105 | 2887 | 3.08 | 6.16 | 6.16 | 3.08 | -12.87 | 106.1 | 0.00 |
| 4 | 175 | -1727 | 3918 | 111 | -23 | -104 | 2741 | 3.08 | 6.16 | 6.16 | 3.08 | -12.22 | 100.7 | 0.00 |
| 5 | 175 | -1699 | 3723 | 108 | -26 | -104 | 2691 | 3.08 | 6.16 | 6.16 | 3.08 | -11.99 | 98.9 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 210 | -1692 | 3891 | 121 | -19 | -148 | 4352 | 3.08 | 6.16 | 6.16 | 3.08 | -19.40 | 159.9 | 0.00 |
| 4 | 210 | -1727 | 3369 | 111 | -23 | -143 | 4014 | 3.08 | 6.16 | 6.16 | 3.08 | -17.89 | 147.5 | 0.00 |
| 5 | 210 | -1699 | 3192 | 108 | -26 | -141 | 3899 | 3.08 | 6.16 | 6.16 | 3.08 | -17.38 | 143.3 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 245 | -1692 | 3286 | 121 | -19 | -190 | 5606 | 3.08 | 6.16 | 6.16 | 3.08 | -43.70 | 1906.3 | 0.10 |
| 4 | 245 | -1727 | 2820 | 111 | -23 | -182 | 5095 | 3.08 | 6.16 | 6.16 | 3.08 | -39.72 | 1732.5 | 0.08 |
| 5 | 245 | -1699 | 2662 | 108 | -26 | -179 | 4921 | 3.08 | 6.16 | 6.16 | 3.08 | -38.36 | 1673.6 | 0.08 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 279 | -1692 | 2681 | 121 | -19 | -232 | 6648 | 3.08 | 6.16 | 6.16 | 3.08 | -51.82 | 2260.7 | 0.13 |
| 4 | 279 | -1727 | 2271 | 111 | -23 | -220 | 5984 | 3.08 | 6.16 | 6.16 | 3.08 | -46.65 | 2034.9 | 0.11 |
| 5 | 279 | -1699 | 2132 | 108 | -26 | -217 | 5759 | 3.08 | 6.16 | 6.16 | 3.08 | -44.89 | 1958.3 | 0.10 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 314 | -1692 | 2075 | 121 | -19 | -275 | 7479 | 3.08 | 6.16 | 6.16 | 3.08 | -58.30 | 2543.3 | 0.15 |
| 4 | 314 | -1727 | 1722 | 111 | -23 | -259 | 6681 | 3.08 | 6.16 | 6.16 | 3.08 | -52.08 | 2272.1 | 0.13 |
| 5 | 314 | -1699 | 1602 | 108 | -26 | -254 | 6411 | 3.08 | 6.16 | 6.16 | 3.08 | -49.98 | 2180.2 | 0.12 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

```
 3   349   -1692    1470     121      -19    -317    8098     6.16   6.16   6.16   3.08    -63.13    2753.9    0.17
 4   349   -1727    1173     111      -23    -298    7187     6.16   6.16   6.16   3.08    -56.03    2444.1    0.14
 5   349   -1699    1072     108      -26    -292    6878     6.16   6.16   6.16   3.08    -53.62    2339.0    0.14

apost= 3.08 aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

ASTA NUM. 21     NI 16162    NF 16163    SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125   7.1280     5.3856  17.3261  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
       --     ---------------------     ------------------   ----------------------------      --------------     --
       cm             kg                       kg*m                        cm²                      kg/cm²        mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -2001   -4695     243     -252     330    7958     6.16   6.16   6.16   3.08    -62.04    2706.3    0.17
 4     0   -2030   -4349     222     -202     304    7062     6.16   6.16   6.16   3.08    -55.05    2401.6    0.14
 5     0   -1999   -4233     217     -188     297    6757     6.16   6.16   6.16   3.08    -52.67    2297.8    0.13

apost= 3.08 aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3    33   -2001   -5272     243     -252     249    6301     6.16   3.08   6.16   3.08    -49.12    2142.8    0.12
 4    33   -2030   -4871     222     -202     230    5529     6.16   3.08   6.16   3.08    -43.10    1880.4    0.10
 5    33   -1999   -4738     217     -188     225    5265     6.16   3.08   6.16   3.08    -41.04    1790.5    0.09

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3    67   -2001   -5848     243     -252     169    4453     6.16   3.08   6.16   3.08    -34.71    1514.3    0.06
 4    67   -2030   -5394     222     -202     156    3823     6.16   3.08   6.16   3.08    -17.04     140.5    0.00
 5    67   -1999   -5242     217     -188     153    3605     6.16   3.08   6.16   3.08    -16.07     132.5    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   100   -2001   -6424     243     -252      88    2413     6.16   3.08   6.16   3.08    -10.75      88.7    0.00
 4   100   -2030   -5916     222     -202      83    1943     6.16   3.08   6.16   3.08     -8.66      71.4    0.00
 5   100   -1999   -5747     217     -188      81    1778     6.16   3.08   6.16   3.08     -7.93      65.3    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   133   -2001   -7001     243     -252       7     181     3.08   3.08   6.16   6.16     -0.78       6.6    0.00
 4   133   -2030   -6439     222     -202       9    -111     3.08   3.08   6.16   6.16     -0.48       4.0    0.00
 5   133   -1999   -6251     217     -188       9    -217     3.08   3.08   6.16   6.16     -0.94       7.9    0.00

apost= --      aant= --      ainf= 3.08 asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   166   -2001   -7578     243     -252     -74   -2242     3.08   6.16   3.08   6.16     -9.99      82.4    0.00
 4   166   -2030   -6961     222     -202     -65   -2338     3.08   6.16   3.08   6.16    -10.42      85.9    0.00
 5   166   -1999   -6756     217     -188     -63   -2380     3.08   6.16   3.08   6.16    -10.61      87.5    0.00

apost= --      aant= 3.08 ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   200   -2001   -8154     243     -252    -155   -4856     3.08   6.16   3.08   6.16    -37.86    1651.4    0.08
 4   200   -2030   -7483     222     -202    -139   -4739     3.08   6.16   3.08   6.16    -36.94    1611.6    0.07
 5   200   -1999   -7260     217     -188    -135   -4710     3.08   6.16   3.08   6.16    -36.72    1601.9    0.07

apost= --      aant= 3.08 ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   233   -2001   -8731     243     -252    -236   -7662     3.08   6.16   3.08   6.16    -59.73    2605.7    0.16
 4   233   -2030   -8006     222     -202    -213   -7314     3.08   6.16   3.08   6.16    -57.01    2487.1    0.15
 5   233   -1999   -7765     217     -188    -207   -7209     3.08   6.16   3.08   6.16    -56.20    2451.4    0.15

apost= --      aant= 3.08 ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   266   -2001   -9307     243     -252    -316  -10660     3.08   6.16   4.62   7.70    -73.56    2912.4    0.17
 4   266   -2030   -8528     222     -202    -287  -10062     3.08   6.16   4.62   7.70    -69.43    2749.1    0.16
 5   266   -1999   -8269     217     -188    -279   -9875     3.08   6.16   4.62   7.70    -68.14    2697.9    0.15

apost= --      aant= 3.08 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

 3   299   -2001   -9884     243     -252    -397  -13849     3.08   6.16   6.16  10.78    -82.07    2728.0    0.14
 4   299   -2030   -9051     222     -202    -361  -12984     3.08   6.16   6.16  10.78    -76.94    2557.6    0.13
 5   299   -1999   -8774     217     -188    -351  -12708     3.08   6.16   6.16  10.78    -75.31    2503.3    0.13

apost= --      aant= 3.08 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

 3   333   -2001  -10460     243     -252    -478  -15661     3.08   6.16   6.16  10.78    -92.81    3084.9    0.16
 4   333   -2030   -9573     222     -202    -435  -14644     3.08   6.16   6.16  10.78    -86.78    2884.6    0.15
 5   333   -1999   -9278     217     -188    -423  -14318     3.08   6.16   6.16  10.78    -84.85    2820.4    0.14

apost= --      aant= 3.08 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

ASTA NUM. 22     NI 16057    NF 16166    SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125   6.6440     5.3856  16.8421  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
```

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | | $kg/cm^2$ | mm |
| 3 | 0 | -5737 | 7719 | 2 | -9 | -18 | -8305 | 3.08 | 6.16 | 3.08 | 6.16 | -64.74 | 2824.3 | 0.17 |
| 4 | 0 | -5140 | 6792 | 16 | -14 | 9 | -7039 | 3.08 | 6.16 | 3.08 | 6.16 | -54.87 | 2393.7 | 0.14 |
| 5 | 0 | -4939 | 6485 | 21 | -15 | 18 | -6624 | 3.08 | 6.16 | 3.08 | 6.16 | -51.64 | 2252.6 | 0.13 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 35 | -5737 | 7131 | 2 | -9 | -19 | -5711 | 3.08 | 6.16 | 3.08 | 6.16 | -44.52 | 1942.1 | 0.10 |
| 4 | 35 | -5140 | 6260 | 16 | -14 | 3 | -4759 | 3.08 | 6.16 | 3.08 | 6.16 | -37.10 | 1618.4 | 0.07 |
| 5 | 35 | -4939 | 5972 | 21 | -15 | 11 | -4448 | 3.08 | 6.16 | 3.08 | 6.16 | -19.83 | 163.5 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 70 | -5737 | 6542 | 2 | -9 | -20 | -3323 | 3.08 | 6.16 | 3.08 | 6.16 | -14.81 | 122.1 | 0.00 |
| 4 | 70 | -5140 | 5728 | 16 | -14 | -2 | -2665 | 3.08 | 6.16 | 3.08 | 6.16 | -11.88 | 97.9 | 0.00 |
| 5 | 70 | -4939 | 5459 | 21 | -15 | 4 | -2451 | 3.08 | 6.16 | 3.08 | 6.16 | -10.93 | 90.1 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 105 | -5737 | 5954 | 2 | -9 | -21 | -1140 | 3.08 | 6.16 | 3.08 | 6.16 | -5.08 | 41.9 | 0.00 |
| 4 | 105 | -5140 | 5196 | 16 | -14 | -8 | -757 | 3.08 | 6.16 | 3.08 | 6.16 | -3.37 | 27.8 | 0.00 |
| 5 | 105 | -4939 | 4945 | 21 | -15 | -4 | -634 | 3.08 | 6.16 | 3.08 | 6.16 | -2.83 | 23.3 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 140 | -5737 | 5365 | 2 | -9 | -22 | 837 | 3.08 | 6.16 | 6.16 | 3.08 | -3.73 | 30.8 | 0.00 |
| 4 | 140 | -5140 | 4664 | 16 | -14 | -14 | 966 | 3.08 | 6.16 | 6.16 | 3.08 | -4.30 | 35.5 | 0.00 |
| 5 | 140 | -4939 | 4432 | 21 | -15 | -11 | 1004 | 3.08 | 6.16 | 6.16 | 3.08 | -4.48 | 36.9 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 175 | -5737 | 4777 | 2 | -9 | -23 | 2609 | 3.08 | 6.16 | 6.16 | 3.08 | -11.63 | 95.9 | 0.00 |
| 4 | 175 | -5140 | 4132 | 16 | -14 | -19 | 2502 | 3.08 | 6.16 | 6.16 | 3.08 | -11.15 | 92.0 | 0.00 |
| 5 | 175 | -4939 | 3919 | 21 | -15 | -18 | 2463 | 3.08 | 6.16 | 6.16 | 3.08 | -10.98 | 90.5 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 210 | -5737 | 4189 | 2 | -9 | -23 | 4175 | 3.08 | 6.16 | 6.16 | 3.08 | -18.61 | 153.4 | 0.00 |
| 4 | 210 | -5140 | 3600 | 16 | -14 | -25 | 3853 | 3.08 | 6.16 | 6.16 | 3.08 | -17.17 | 141.6 | 0.00 |
| 5 | 210 | -4939 | 3406 | 21 | -15 | -25 | 3743 | 3.08 | 6.16 | 6.16 | 3.08 | -16.68 | 137.5 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 245 | -5737 | 3600 | 2 | -9 | -24 | 5536 | 3.08 | 6.16 | 6.16 | 3.08 | -43.15 | 1882.6 | 0.10 |
| 4 | 245 | -5140 | 3068 | 16 | -14 | -30 | 5018 | 3.08 | 6.16 | 6.16 | 3.08 | -39.12 | 1706.3 | 0.08 |
| 5 | 245 | -4939 | 2893 | 21 | -15 | -33 | 4843 | 3.08 | 6.16 | 6.16 | 3.08 | -37.75 | 1646.9 | 0.08 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 279 | -5737 | 3012 | 2 | -9 | -25 | 6691 | 3.08 | 6.16 | 6.16 | 3.08 | -52.16 | 2275.3 | 0.13 |
| 4 | 279 | -5140 | 2536 | 16 | -14 | -36 | 5997 | 3.08 | 6.16 | 6.16 | 3.08 | -46.75 | 2039.3 | 0.11 |
| 5 | 279 | -4939 | 2379 | 21 | -15 | -40 | 5764 | 3.08 | 6.16 | 6.16 | 3.08 | -44.93 | 1960.1 | 0.10 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 314 | -5737 | 2423 | 2 | -9 | -26 | 7640 | 3.08 | 6.16 | 6.16 | 3.08 | -59.56 | 2598.2 | 0.16 |
| 4 | 314 | -5140 | 2004 | 16 | -14 | -42 | 6790 | 3.08 | 6.16 | 6.16 | 3.08 | -52.93 | 2309.0 | 0.13 |
| 5 | 314 | -4939 | 1866 | 21 | -15 | -47 | 6506 | 3.08 | 6.16 | 6.16 | 3.08 | -50.71 | 2212.3 | 0.13 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 349 | -5737 | 1835 | 2 | -9 | -27 | 8384 | 3.08 | 6.16 | 6.16 | 3.08 | -65.36 | 2851.1 | 0.18 |
| 4 | 349 | -5140 | 1472 | 16 | -14 | -47 | 7397 | 3.08 | 6.16 | 6.16 | 3.08 | -57.66 | 2515.5 | 0.15 |
| 5 | 349 | -4939 | 1353 | 21 | -15 | -54 | 7068 | 3.08 | 6.16 | 6.16 | 3.08 | -55.10 | 2403.6 | 0.14 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 23** NI 16166 NF 16167 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.6440 5.3856 16.8421 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | | $kg/cm^2$ | mm |
| 3 | 0 | -5799 | -4315 | 44 | -31 | -5 | 8289 | 3.08 | 6.16 | 6.16 | 3.08 | -64.62 | 2818.8 | 0.17 |
| 4 | 0 | -5180 | -4004 | 32 | -21 | -20 | 7316 | 3.08 | 6.16 | 6.16 | 3.08 | -57.03 | 2487.9 | 0.15 |
| 5 | 0 | -4973 | -3898 | 29 | -18 | -23 | 6992 | 3.08 | 6.16 | 6.16 | 3.08 | -54.51 | 2377.8 | 0.14 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 33 | -5799 | -4875 | 44 | -31 | -20 | 6761 | 3.08 | 6.16 | 6.16 | 3.08 | -52.71 | 2299.2 | 0.13 |
| 4 | 33 | -5180 | -4510 | 32 | -21 | -30 | 5900 | 3.08 | 6.16 | 6.16 | 3.08 | -45.99 | 2006.4 | 0.11 |
| 5 | 33 | -4973 | -4386 | 29 | -18 | -33 | 5615 | 3.08 | 6.16 | 6.16 | 3.08 | -43.77 | 1909.3 | 0.10 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 67 | -5799 | -5435 | 44 | -31 | -34 | 5047 | 3.08 | 6.16 | 6.16 | 3.08 | -39.34 | 1716.3 | 0.08 |
| 4 | 67 | -5180 | -5017 | 32 | -21 | -41 | 4316 | 3.08 | 6.16 | 6.16 | 3.08 | -19.24 | 158.6 | 0.00 |
| 5 | 67 | -4973 | -4875 | 29 | -18 | -42 | 4075 | 3.08 | 6.16 | 6.16 | 3.08 | -18.16 | 149.7 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 100 | -5799 | -5995 | 44 | -31 | -49 | 3146 | 3.08 | 6.16 | 6.16 | 3.08 | -14.02 | 115.6 | 0.00 |
| 4 | 100 | -5180 | -5523 | 32 | -21 | -52 | 2563 | 3.08 | 6.16 | 6.16 | 3.08 | -11.42 | 94.2 | 0.00 |
| 5 | 100 | -4973 | -5363 | 29 | -18 | -52 | 2372 | 3.08 | 6.16 | 6.16 | 3.08 | -10.57 | 87.2 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -5799 | -6555 | 44 | -31 | -64 | 1060 | 3.08 | 6.16 | 6.16 | 3.08 | -4.72 | 38.9 | 0.00 |
| 4 | 133 | -5180 | -6029 | 32 | -21 | -63 | 642 | 3.08 | 6.16 | 6.16 | 3.08 | -2.86 | 23.6 | 0.00 |
| 5 | 133 | -4973 | -5852 | 29 | -18 | -62 | 508 | 3.08 | 6.16 | 6.16 | 3.08 | -2.26 | 18.7 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 166 | -5799 | -7115 | 44 | -31 | -78 | -1213 | 3.08 | 6.16 | 3.08 | 6.16 | -5.41 | 44.6 | 0.00 |
| 4 | 166 | -5180 | -6536 | 32 | -21 | -73 | -1448 | 3.08 | 6.16 | 3.08 | 6.16 | -6.45 | 53.2 | 0.00 |
| 5 | 166 | -4973 | -6340 | 29 | -18 | -72 | -1519 | 3.08 | 6.16 | 3.08 | 6.16 | -6.77 | 55.8 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 200 | -5799 | -7675 | 44 | -31 | -93 | -3672 | 3.08 | 6.16 | 3.08 | 6.16 | -16.37 | 134.9 | 0.00 |
| 4 | 200 | -5180 | -7042 | 32 | -21 | -84 | -3706 | 3.08 | 6.16 | 3.08 | 6.16 | -16.52 | 136.2 | 0.00 |
| 5 | 200 | -4973 | -6828 | 29 | -18 | -82 | -3709 | 3.08 | 6.16 | 3.08 | 6.16 | -16.53 | 136.3 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 233 | -5799 | -8235 | 44 | -31 | -108 | -6317 | 3.08 | 6.16 | 3.08 | 6.16 | -49.25 | 2148.3 | 0.12 |
| 4 | 233 | -5180 | -7548 | 32 | -21 | -95 | -6132 | 3.08 | 6.16 | 3.08 | 6.16 | -47.80 | 2085.2 | 0.12 |
| 5 | 233 | -4973 | -7317 | 29 | -18 | -91 | -6060 | 3.08 | 6.16 | 3.08 | 6.16 | -47.24 | 2060.9 | 0.11 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | -5799 | -8795 | 44 | -31 | -122 | -9149 | 3.08 | 6.16 | 3.08 | 6.16 | -71.32 | 3111.1 | 0.20 |
| 4 | 266 | -5180 | -8054 | 32 | -21 | -105 | -8726 | 3.08 | 6.16 | 3.08 | 6.16 | -68.02 | 2967.5 | 0.19 |
| 5 | 266 | -4973 | -7805 | 29 | -18 | -101 | -8575 | 3.08 | 6.16 | 3.08 | 6.16 | -66.84 | 2915.9 | 0.18 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 299 | -5799 | -9355 | 44 | -31 | -137 | -12166 | 3.08 | 6.16 | 4.62 | 7.70 | -83.95 | 3323.9 | 0.20 |
| 4 | 299 | -5180 | -8561 | 32 | -21 | -116 | -11489 | 3.08 | 6.16 | 4.62 | 7.70 | -79.28 | 3138.9 | 0.18 |
| 5 | 299 | -4973 | -8294 | 29 | -18 | -111 | -11251 | 3.08 | 6.16 | 4.62 | 7.70 | -77.64 | 3073.9 | 0.18 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -5799 | -9915 | 44 | -31 | -152 | -13883 | 3.08 | 6.16 | 4.62 | 9.24 | -89.99 | 3183.9 | 0.17 |
| 4 | 333 | -5180 | -9067 | 32 | -21 | -127 | -13060 | 3.08 | 6.16 | 4.62 | 9.24 | -84.66 | 2995.2 | 0.16 |
| 5 | 333 | -4973 | -8782 | 29 | -18 | -121 | -12773 | 3.08 | 6.16 | 4.62 | 9.24 | -82.79 | 2929.3 | 0.16 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 25**  NI 16058  NF 16170  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -5584 | 7386 | 218 | -25 | 428 | -7615 | 6.16 | 3.08 | 3.08 | 6.16 | -59.36 | 2589.6 | 0.16 |
| 4 | 0 | -4852 | 6447 | 210 | -22 | 406 | -6316 | 6.16 | 3.08 | 3.08 | 6.16 | -49.24 | 2147.9 | 0.12 |
| 5 | 0 | -4611 | 6138 | 208 | -21 | 399 | -5895 | 6.16 | 3.08 | 3.08 | 6.16 | -45.95 | 2004.7 | 0.11 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -5584 | 6815 | 218 | -25 | 352 | -5134 | 6.16 | 3.08 | 3.08 | 6.16 | -40.02 | 1746.0 | 0.09 |
| 4 | 35 | -4852 | 5932 | 210 | -22 | 332 | -4154 | 6.16 | 3.08 | 3.08 | 6.16 | -18.51 | 152.6 | 0.00 |
| 5 | 35 | -4611 | 5642 | 208 | -21 | 326 | -3837 | 6.16 | 3.08 | 3.08 | 6.16 | -17.10 | 141.0 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -5584 | 6243 | 218 | -25 | 276 | -2853 | 6.16 | 3.08 | 3.08 | 6.16 | -12.72 | 104.9 | 0.00 |
| 4 | 70 | -4852 | 5417 | 210 | -22 | 259 | -2171 | 6.16 | 3.08 | 3.08 | 6.16 | -9.68 | 79.8 | 0.00 |
| 5 | 70 | -4611 | 5145 | 208 | -21 | 254 | -1953 | 6.16 | 3.08 | 3.08 | 6.16 | -8.70 | 71.8 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 105 | -5584 | 5672 | 218 | -25 | 199 | -772 | 6.16 | 3.08 | 3.08 | 6.16 | -3.44 | 28.4 | 0.00 |
| 4 | 105 | -4852 | 4902 | 210 | -22 | 185 | -368 | 6.16 | 3.08 | 3.08 | 6.16 | -1.64 | 13.5 | 0.00 |
| 5 | 105 | -4611 | 4649 | 208 | -21 | 181 | -242 | 6.16 | 3.08 | 3.08 | 6.16 | -1.08 | 8.9 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 140 | -5584 | 5100 | 218 | -25 | 123 | 1110 | 6.16 | 3.08 | 6.16 | 3.08 | -4.95 | 40.8 | 0.00 |

```
 4   140   -4852    4387     210      -22     112    1254     6.16   3.08   6.16   3.08     -5.59      46.1    0.00
 5   140   -4611    4153     208      -21     108    1296     6.16   3.08   6.16   3.08     -5.78      47.6    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   175   -5584    4529     218      -25      47    2792     6.16   3.08   6.16   3.08    -12.44     102.6    0.00
 4   175   -4852    3872     210      -22      38    2697     6.16   3.08   6.16   3.08    -12.02      99.1    0.00
 5   175   -4611    3657     208      -21      36    2660     6.16   3.08   6.16   3.08    -11.86      97.8    0.00

apost= 3.08 aant= --      ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   210   -5584    3957     218      -25     -29    4274     3.08   6.16   6.16   3.08    -19.05     157.1    0.00
 4   210   -4852    3357     210      -22     -35    3960     3.08   6.16   6.16   3.08    -17.65     145.5    0.00
 5   210   -4611    3160     208      -21     -37    3851     3.08   6.16   6.16   3.08    -17.17     141.5    0.00

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   245   -5584    3386     218      -25    -106    5557     3.08   6.16   6.16   3.08    -43.32    1889.7    0.10
 4   245   -4852    2842     210      -22    -109    5042     3.08   6.16   6.16   3.08    -39.31    1714.7    0.08
 5   245   -4611    2664     208      -21    -110    4869     3.08   6.16   6.16   3.08    -37.95    1655.7    0.08

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   279   -5584    2814     218      -25    -182    6640     3.08   6.16   6.16   3.08    -51.76    2258.0    0.13
 4   279   -4852    2327     210      -22    -182    5945     3.08   6.16   6.16   3.08    -46.35    2021.8    0.11
 5   279   -4611    2168     208      -21    -182    5713     3.08   6.16   6.16   3.08    -44.53    1942.7    0.10

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   314   -5584    2242     218      -25    -258    7523     3.08   6.16   6.16   3.08    -58.65    2558.4    0.15
 4   314   -4852    1812     210      -22    -256    6668     3.08   6.16   6.16   3.08    -51.98    2267.6    0.13
 5   314   -4611    1671     208      -21    -255    6384     3.08   6.16   6.16   3.08    -49.76    2170.9    0.12

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   349   -5584    1671     218      -25    -335    8207     6.16   6.16   6.16   3.08    -63.98    2790.9    0.17
 4   349   -4852    1297     210      -22    -329    7211     6.16   6.16   6.16   3.08    -56.21    2452.2    0.15
 5   349   -4611    1175     208      -21    -328    6881     6.16   6.16   6.16   3.08    -53.64    2340.0    0.14

apost= 3.08 aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

ASTA NUM. 24     NI 16170    NF 16171    SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125   6.1600     5.3856  16.3581  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
       --     -------------------     ------------------   ---------------------------      -------------     --
      cm              kg                      kg*m                    cm²                      kg/cm²         mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -5321   -4463      78       89      30    8166     6.16   6.16   6.16   3.08    -63.66    2777.0    0.17
 4     0   -4622   -4135      67       89      18    7179     6.16   6.16   6.16   3.08    -55.96    2441.3    0.14
 5     0   -4392   -4022      64       90      15    6851     6.16   6.16   6.16   3.08    -53.41    2329.8    0.14

apost= 3.08 aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3    33   -5321   -5007      78       89       4    6591     3.08   6.16   6.16   3.08    -51.38    2241.5    0.13
 4    33   -4622   -4625      67       89      -4    5723     3.08   6.16   6.16   3.08    -44.61    1946.1    0.10
 5    33   -4392   -4494      64       90      -6    5435     3.08   6.16   6.16   3.08    -42.37    1848.1    0.09

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3    67   -5321   -5551      78       89     -22    4836     3.08   6.16   6.16   3.08    -37.70    1644.4    0.08
 4    67   -4622   -5115      67       89     -26    4103     3.08   6.16   6.16   3.08    -18.29     150.8    0.00
 5    67   -4392   -4967      64       90     -27    3861     3.08   6.16   6.16   3.08    -17.21     141.9    0.00

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   100   -5321   -6095      78       89     -48    2899     3.08   6.16   6.16   3.08    -12.92     106.5    0.00
 4   100   -4622   -5605      67       89     -48    2321     3.08   6.16   6.16   3.08    -10.34      85.3    0.00
 5   100   -4392   -5439      64       90     -48    2131     3.08   6.16   6.16   3.08     -9.50      78.3    0.00

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   133   -5321   -6639      78       89     -74     782     3.08   6.16   6.16   3.08     -3.48      28.7    0.00
 4   133   -4622   -6095      67       89     -71     375     3.08   6.16   6.16   3.08     -1.67      13.8    0.00
 5   133   -4392   -5911      64       90     -69     243     3.08   6.16   6.16   3.08     -1.08       8.9    0.00

apost= --      aant= 3.08 ainf= 3.08 asup= --       ( e armatura base = 4 X 1.54 )

 3   166   -5321   -7183      78       89     -99   -1516     3.08   6.16   3.08   6.16     -6.76      55.7    0.00
 4   166   -4622   -6586      67       89     -93   -1733     3.08   6.16   3.08   6.16     -7.73      63.7    0.00
 5   166   -4392   -6384      64       90     -91   -1802     3.08   6.16   3.08   6.16     -8.03      66.2    0.00

apost= --      aant= 3.08 ainf= --      asup= 3.08  ( e armatura base = 4 X 1.54 )

 3   200   -5321   -7726      78       89    -125   -3995     3.08   6.16   3.08   6.16    -17.81     146.8    0.00
 4   200   -4622   -7076      67       89    -115   -4005     3.08   6.16   3.08   6.16    -17.85     147.2    0.00
 5   200   -4392   -6856      64       90    -112   -4003     3.08   6.16   3.08   6.16    -17.84     147.1    0.00
```

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 233 | -5321 | -8270 | 78 | 89 | -151 | -6655 | 3.08 | 6.16 | 3.08 | 6.16 | -51.88 | 2263.3 | 0.13 |
| 4 | 233 | -4622 | -7566 | 67 | 89 | -137 | -6439 | 3.08 | 6.16 | 3.08 | 6.16 | -50.20 | 2189.7 | 0.12 |
| 5 | 233 | -4392 | -7328 | 64 | 90 | -133 | -6362 | 3.08 | 6.16 | 3.08 | 6.16 | -49.59 | 2163.5 | 0.12 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | -5321 | -8814 | 78 | 89 | -177 | -9496 | 3.08 | 6.16 | 3.08 | 6.16 | -74.03 | 3229.3 | 0.21 |
| 4 | 266 | -4622 | -8056 | 67 | 89 | -159 | -9036 | 3.08 | 6.16 | 3.08 | 6.16 | -70.44 | 3073.0 | 0.19 |
| 5 | 266 | -4392 | -7800 | 64 | 90 | -154 | -8878 | 3.08 | 6.16 | 3.08 | 6.16 | -69.21 | 3019.0 | 0.19 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 299 | -5321 | -9358 | 78 | 89 | -203 | -12518 | 3.08 | 6.16 | 4.62 | 7.70 | -86.37 | 3419.9 | 0.20 |
| 4 | 299 | -4622 | -8546 | 67 | 89 | -181 | -11797 | 3.08 | 6.16 | 4.62 | 7.70 | -81.40 | 3223.0 | 0.19 |
| 5 | 299 | -4392 | -8273 | 64 | 90 | -175 | -11550 | 3.08 | 6.16 | 4.62 | 7.70 | -79.70 | 3155.6 | 0.18 |

apost= --  aant= 3.08 ainf= 1.54 asup= 4.62  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -5321 | -9902 | 78 | 89 | -229 | -14235 | 3.08 | 6.16 | 4.62 | 9.24 | -92.27 | 3264.6 | 0.18 |
| 4 | 333 | -4622 | -9036 | 67 | 89 | -203 | -13365 | 3.08 | 6.16 | 4.62 | 9.24 | -86.63 | 3065.1 | 0.17 |
| 5 | 333 | -4392 | -8745 | 64 | 90 | -196 | -13068 | 3.08 | 6.16 | 4.62 | 9.24 | -84.71 | 2997.1 | 0.16 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 26**  NI 16052  NF 16174  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -2463 | 6591 | 145 | -99 | 255 | -5438 | 6.16 | 3.08 | 3.08 | 6.16 | -42.39 | 1849.3 | 0.09 |
| 4 | 0 | -2158 | 5754 | 148 | -89 | 258 | -4434 | 6.16 | 3.08 | 3.08 | 6.16 | -19.76 | 162.9 | 0.00 |
| 5 | 0 | -2058 | 5477 | 149 | -86 | 260 | -4106 | 6.16 | 3.08 | 3.08 | 6.16 | -18.30 | 150.9 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -2463 | 6020 | 145 | -99 | 205 | -3235 | 6.16 | 3.08 | 3.08 | 6.16 | -14.42 | 118.9 | 0.00 |
| 4 | 35 | -2158 | 5239 | 148 | -89 | 207 | -2514 | 6.16 | 3.08 | 3.08 | 6.16 | -11.20 | 92.4 | 0.00 |
| 5 | 35 | -2058 | 4981 | 149 | -86 | 208 | -2279 | 6.16 | 3.08 | 3.08 | 6.16 | -10.16 | 83.8 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -2463 | 5448 | 145 | -99 | 154 | -1232 | 6.16 | 3.08 | 3.08 | 6.16 | -5.49 | 45.3 | 0.00 |
| 4 | 70 | -2158 | 4724 | 148 | -89 | 155 | -773 | 6.16 | 3.08 | 3.08 | 6.16 | -3.45 | 28.4 | 0.00 |
| 5 | 70 | -2058 | 4485 | 149 | -86 | 156 | -626 | 6.16 | 3.08 | 3.08 | 6.16 | -2.79 | 23.0 | 0.00 |

apost= 3.08 aant= --  ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 105 | -2463 | 4877 | 145 | -99 | 104 | 572 | 6.16 | 3.08 | 6.16 | 3.08 | -2.55 | 21.0 | 0.00 |
| 4 | 105 | -2158 | 4209 | 148 | -89 | 103 | 787 | 6.16 | 3.08 | 6.16 | 3.08 | -3.51 | 28.9 | 0.00 |
| 5 | 105 | -2058 | 3988 | 149 | -86 | 104 | 855 | 6.16 | 3.08 | 6.16 | 3.08 | -3.81 | 31.4 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 140 | -2463 | 4305 | 145 | -99 | 53 | 2176 | 6.16 | 3.08 | 6.16 | 3.08 | -9.70 | 80.0 | 0.00 |
| 4 | 140 | -2158 | 3694 | 148 | -89 | 52 | 2168 | 6.16 | 3.08 | 6.16 | 3.08 | -9.66 | 79.7 | 0.00 |
| 5 | 140 | -2058 | 3492 | 149 | -86 | 52 | 2161 | 6.16 | 3.08 | 6.16 | 3.08 | -9.63 | 79.4 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 175 | -2463 | 3734 | 145 | -99 | 3 | 3580 | 3.08 | 3.08 | 6.16 | 3.08 | -15.96 | 131.6 | 0.00 |
| 4 | 175 | -2158 | 3179 | 148 | -89 | 0 | 3368 | 3.08 | 3.08 | 6.16 | 3.08 | -15.01 | 123.8 | 0.00 |
| 5 | 175 | -2058 | 2996 | 149 | -86 | -0 | 3295 | 3.08 | 3.08 | 6.16 | 3.08 | -14.69 | 121.1 | 0.00 |

apost= --  aant= --  ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 210 | -2463 | 3162 | 145 | -99 | -48 | 4785 | 3.08 | 6.16 | 6.16 | 3.08 | -37.30 | 1627.2 | 0.07 |
| 4 | 210 | -2158 | 2664 | 147 | -89 | -51 | 4389 | 3.08 | 6.16 | 6.16 | 3.08 | -19.56 | 161.3 | 0.00 |
| 5 | 210 | -2058 | 2500 | 149 | -86 | -52 | 4255 | 3.08 | 6.16 | 6.16 | 3.08 | -18.96 | 156.4 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 245 | -2463 | 2591 | 145 | -99 | -98 | 5790 | 3.08 | 6.16 | 6.16 | 3.08 | -45.14 | 1969.0 | 0.11 |
| 4 | 245 | -2158 | 2149 | 148 | -89 | -103 | 5230 | 3.08 | 6.16 | 6.16 | 3.08 | -40.77 | 1778.4 | 0.09 |
| 5 | 245 | -2058 | 2003 | 149 | -86 | -104 | 5041 | 3.08 | 6.16 | 6.16 | 3.08 | -39.30 | 1714.4 | 0.08 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 279 | -2463 | 2019 | 145 | -99 | -149 | 6595 | 3.08 | 6.16 | 6.16 | 3.08 | -51.41 | 2242.9 | 0.13 |
| 4 | 279 | -2158 | 1634 | 148 | -89 | -154 | 5890 | 3.08 | 6.16 | 6.16 | 3.08 | -45.92 | 2003.1 | 0.11 |
| 5 | 279 | -2058 | 1507 | 149 | -86 | -156 | 5655 | 3.08 | 6.16 | 6.16 | 3.08 | -44.08 | 1922.9 | 0.10 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 314 | -2463 | 1448 | 145 | -99 | -199 | 7201 | 3.08 | 6.16 | 6.16 | 3.08 | -56.14 | 2448.8 | 0.15 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 314 | -2158 | 1119 | 148 | -89 | -206 | 6371 | 3.08 | 6.16 | 6.16 | 3.08 | -49.67 | 2166.6 | 0.12 |
| 5 | 314 | -2058 | 1011 | 149 | -86 | -209 | 6094 | 3.08 | 6.16 | 6.16 | 3.08 | -47.51 | 2072.5 | 0.11 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 349 | -2463 | 876 | 145 | -99 | -250 | 7607 | 3.08 | 6.16 | 6.16 | 3.08 | -59.30 | 2586.9 | 0.16 |
| 4 | 349 | -2158 | 604 | 148 | -89 | -257 | 6672 | 3.08 | 6.16 | 6.16 | 3.08 | -52.01 | 2268.9 | 0.13 |
| 5 | 349 | -2058 | 515 | 149 | -86 | -261 | 6361 | 3.08 | 6.16 | 6.16 | 3.08 | -49.59 | 2163.2 | 0.12 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 27**  NI 16174  NF 16175  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -2801 | -4246 | 31 | -36 | -37 | 7507 | 3.08 | 6.16 | 6.16 | 3.08 | -58.52 | 2552.9 | 0.15 |
| 4 | 0 | -2451 | -3943 | 26 | -14 | -41 | 6579 | 3.08 | 6.16 | 6.16 | 3.08 | -51.29 | 2237.3 | 0.13 |
| 5 | 0 | -2337 | -3839 | 24 | -7 | -41 | 6271 | 3.08 | 6.16 | 6.16 | 3.08 | -48.89 | 2132.6 | 0.12 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -2801 | -4790 | 31 | -36 | -47 | 6005 | 3.08 | 6.16 | 6.16 | 3.08 | -46.81 | 2042.2 | 0.11 |
| 4 | 33 | -2451 | -4433 | 26 | -14 | -50 | 5187 | 3.08 | 6.16 | 6.16 | 3.08 | -40.43 | 1763.8 | 0.09 |
| 5 | 33 | -2337 | -4311 | 24 | -7 | -49 | 4916 | 3.08 | 6.16 | 6.16 | 3.08 | -38.32 | 1671.6 | 0.08 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 67 | -2801 | -5334 | 31 | -36 | -58 | 4322 | 3.08 | 6.16 | 6.16 | 3.08 | -19.27 | 158.8 | 0.00 |
| 4 | 67 | -2451 | -4923 | 26 | -14 | -58 | 3631 | 3.08 | 6.16 | 6.16 | 3.08 | -16.18 | 133.4 | 0.00 |
| 5 | 67 | -2337 | -4784 | 24 | -7 | -58 | 3403 | 3.08 | 6.16 | 6.16 | 3.08 | -15.17 | 125.1 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 100 | -2801 | -5878 | 31 | -36 | -68 | 2459 | 3.08 | 6.16 | 6.16 | 3.08 | -10.96 | 90.4 | 0.00 |
| 4 | 100 | -2451 | -5413 | 26 | -14 | -67 | 1913 | 3.08 | 6.16 | 6.16 | 3.08 | -8.53 | 70.3 | 0.00 |
| 5 | 100 | -2337 | -5256 | 24 | -7 | -66 | 1734 | 3.08 | 6.16 | 6.16 | 3.08 | -7.73 | 63.7 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -2801 | -6422 | 31 | -36 | -78 | 414 | 3.08 | 6.16 | 6.16 | 6.16 | -1.79 | 15.0 | 0.00 |
| 4 | 133 | -2451 | -5903 | 26 | -14 | -75 | 31 | 3.08 | 6.16 | 6.16 | 6.16 | -0.13 | 1.1 | 0.00 |
| 5 | 133 | -2337 | -5728 | 24 | -7 | -74 | -93 | 3.08 | 6.16 | 6.16 | 6.16 | -0.40 | 3.4 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 166 | -2801 | -6966 | 31 | -36 | -89 | -1811 | 3.08 | 6.16 | 3.08 | 6.16 | -8.07 | 66.5 | 0.00 |
| 4 | 166 | -2451 | -6394 | 26 | -14 | -84 | -2013 | 3.08 | 6.16 | 3.08 | 6.16 | -8.97 | 74.0 | 0.00 |
| 5 | 166 | -2337 | -6201 | 24 | -7 | -82 | -2077 | 3.08 | 6.16 | 3.08 | 6.16 | -9.26 | 76.3 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 200 | -2801 | -7509 | 31 | -36 | -99 | -4217 | 3.08 | 6.16 | 3.08 | 6.16 | -18.80 | 155.0 | 0.00 |
| 4 | 200 | -2451 | -6884 | 26 | -14 | -92 | -4221 | 3.08 | 6.16 | 3.08 | 6.16 | -18.81 | 155.1 | 0.00 |
| 5 | 200 | -2337 | -6673 | 24 | -7 | -90 | -4217 | 3.08 | 6.16 | 3.08 | 6.16 | -18.80 | 155.0 | 0.00 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 233 | -2801 | -8053 | 31 | -36 | -109 | -6804 | 3.08 | 6.16 | 3.08 | 6.16 | -53.04 | 2313.8 | 0.13 |
| 4 | 233 | -2451 | -7374 | 26 | -14 | -101 | -6591 | 3.08 | 6.16 | 3.08 | 6.16 | -51.38 | 2241.4 | 0.13 |
| 5 | 233 | -2337 | -7145 | 24 | -7 | -98 | -6515 | 3.08 | 6.16 | 3.08 | 6.16 | -50.79 | 2215.5 | 0.13 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | -2801 | -8597 | 31 | -36 | -120 | -9572 | 3.08 | 6.16 | 3.08 | 6.16 | -74.62 | 3255.1 | 0.21 |
| 4 | 266 | -2451 | -7864 | 26 | -14 | -109 | -9124 | 3.08 | 6.16 | 3.08 | 6.16 | -71.13 | 3102.9 | 0.20 |
| 5 | 266 | -2337 | -7617 | 24 | -7 | -106 | -8970 | 3.08 | 6.16 | 3.08 | 6.16 | -69.92 | 3050.3 | 0.19 |

apost= --  aant= 3.08 ainf= --  asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 299 | -2801 | -9141 | 31 | -36 | -130 | -12520 | 3.08 | 6.16 | 4.62 | 9.24 | -81.16 | 2871.5 | 0.16 |
| 4 | 299 | -2451 | -8354 | 26 | -14 | -118 | -11821 | 3.08 | 6.16 | 4.62 | 9.24 | -76.62 | 2711.0 | 0.15 |
| 5 | 299 | -2337 | -8090 | 24 | -7 | -114 | -11581 | 3.08 | 6.16 | 4.62 | 9.24 | -75.07 | 2656.1 | 0.14 |

apost= --  aant= 3.08 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -2801 | -9685 | 31 | -36 | -141 | -14197 | 3.08 | 6.16 | 6.16 | 10.78 | -84.13 | 2796.6 | 0.14 |
| 4 | 333 | -2451 | -8844 | 26 | -14 | -126 | -13353 | 3.08 | 6.16 | 6.16 | 10.78 | -79.13 | 2630.4 | 0.13 |
| 5 | 333 | -2337 | -8562 | 24 | -7 | -123 | -13066 | 3.08 | 6.16 | 6.16 | 10.78 | -77.43 | 2573.7 | 0.13 |

apost= --  aant= 3.08 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 28**  NI 16054  NF 16178  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -2288 | 6790 | -142 | -65 | -316 | -5023 | 3.08 | 6.16 | 3.08 | 6.16 | -39.16 | 1708.2 | 0.08 |
| 4 | 0 | -1971 | 5900 | -107 | -60 | -248 | -3989 | 3.08 | 6.16 | 3.08 | 6.16 | -17.78 | 146.6 | 0.00 |
| 5 | 0 | -1866 | 5606 | -95 | -58 | -225 | -3652 | 3.08 | 6.16 | 3.08 | 6.16 | -16.28 | 134.2 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 35 | -2288 | 6219 | -142 | -65 | -267 | -2751 | 3.08 | 6.16 | 3.08 | 6.16 | -12.26 | 101.1 | 0.00 |
| 4 | 35 | -1971 | 5385 | -107 | -60 | -211 | -2018 | 3.08 | 6.16 | 3.08 | 6.16 | -8.99 | 74.1 | 0.00 |
| 5 | 35 | -1866 | 5110 | -95 | -58 | -191 | -1780 | 3.08 | 6.16 | 3.08 | 6.16 | -7.93 | 65.4 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 70 | -2288 | 5647 | -142 | -65 | -217 | -678 | 3.08 | 6.16 | 3.08 | 6.16 | -3.02 | 24.9 | 0.00 |
| 4 | 70 | -1971 | 4870 | -107 | -60 | -174 | -226 | 3.08 | 6.16 | 3.08 | 6.16 | -1.01 | 8.3 | 0.00 |
| 5 | 70 | -1866 | 4614 | -95 | -58 | -158 | -81 | 3.08 | 6.16 | 3.08 | 6.16 | -0.36 | 3.0 | 0.00 |
| apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 105 | -2288 | 5076 | -142 | -65 | -168 | 1195 | 3.08 | 6.16 | 6.16 | 3.08 | -5.33 | 43.9 | 0.00 |
| 4 | 105 | -1971 | 4355 | -107 | -60 | -136 | 1386 | 3.08 | 6.16 | 6.16 | 3.08 | -6.18 | 50.9 | 0.00 |
| 5 | 105 | -1866 | 4117 | -95 | -58 | -125 | 1444 | 3.08 | 6.16 | 6.16 | 3.08 | -6.44 | 53.1 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 140 | -2288 | 4504 | -142 | -65 | -118 | 2869 | 3.08 | 6.16 | 6.16 | 3.08 | -12.79 | 105.4 | 0.00 |
| 4 | 140 | -1971 | 3840 | -107 | -60 | -99 | 2817 | 3.08 | 6.16 | 6.16 | 3.08 | -12.56 | 103.5 | 0.00 |
| 5 | 140 | -1866 | 3621 | -95 | -58 | -92 | 2796 | 3.08 | 6.16 | 6.16 | 3.08 | -12.46 | 102.8 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 175 | -2288 | 3933 | -142 | -65 | -68 | 4343 | 3.08 | 6.16 | 6.16 | 3.08 | -19.36 | 159.6 | 0.00 |
| 4 | 175 | -1971 | 3325 | -107 | -60 | -61 | 4069 | 3.08 | 6.16 | 6.16 | 3.08 | -18.14 | 149.5 | 0.00 |
| 5 | 175 | -1866 | 3125 | -95 | -58 | -59 | 3975 | 3.08 | 6.16 | 6.16 | 3.08 | -17.72 | 146.1 | 0.00 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 210 | -2288 | 3361 | -142 | -65 | -19 | 5617 | 3.08 | 6.16 | 6.16 | 3.08 | -43.79 | 1910.2 | 0.10 |
| 4 | 210 | -1971 | 2810 | -107 | -60 | -24 | 5141 | 3.08 | 6.16 | 6.16 | 3.08 | -40.07 | 1748.1 | 0.09 |
| 5 | 210 | -1866 | 2629 | -95 | -58 | -26 | 4980 | 3.08 | 6.16 | 6.16 | 3.08 | -38.82 | 1693.5 | 0.08 |
| apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 245 | -2288 | 2790 | -142 | -65 | 31 | 6691 | 6.16 | 3.08 | 6.16 | 3.08 | -52.16 | 2275.6 | 0.13 |
| 4 | 245 | -1971 | 2295 | -107 | -60 | 13 | 6032 | 6.16 | 3.08 | 6.16 | 3.08 | -47.03 | 2051.4 | 0.11 |
| 5 | 245 | -1866 | 2133 | -95 | -58 | 7 | 5812 | 6.16 | 3.08 | 6.16 | 3.08 | -45.31 | 1976.4 | 0.11 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 279 | -2288 | 2218 | -142 | -65 | 80 | 7566 | 6.16 | 3.08 | 6.16 | 3.08 | -58.98 | 2573.1 | 0.16 |
| 4 | 279 | -1971 | 1780 | -107 | -60 | 51 | 6744 | 6.16 | 3.08 | 6.16 | 3.08 | -52.57 | 2293.5 | 0.13 |
| 5 | 279 | -1866 | 1636 | -95 | -58 | 40 | 6470 | 6.16 | 3.08 | 6.16 | 3.08 | -50.44 | 2200.3 | 0.12 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 314 | -2288 | 1646 | -142 | -65 | 130 | 8241 | 6.16 | 3.08 | 6.16 | 3.08 | -64.25 | 2802.7 | 0.17 |
| 4 | 314 | -1971 | 1265 | -107 | -60 | 88 | 7276 | 6.16 | 3.08 | 6.16 | 3.08 | -56.72 | 2474.4 | 0.15 |
| 5 | 314 | -1866 | 1140 | -95 | -58 | 73 | 6955 | 6.16 | 3.08 | 6.16 | 3.08 | -54.22 | 2365.3 | 0.14 |
| apost= 3.08 aant= -- ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 349 | -2288 | 1075 | -142 | -65 | 179 | 8717 | 6.16 | 6.16 | 6.16 | 3.08 | -67.95 | 2964.4 | 0.19 |
| 4 | 349 | -1971 | 750 | -107 | -60 | 126 | 7628 | 6.16 | 6.16 | 6.16 | 3.08 | -59.46 | 2594.0 | 0.16 |
| 5 | 349 | -1866 | 644 | -95 | -58 | 107 | 7267 | 6.16 | 6.16 | 6.16 | 3.08 | -56.65 | 2471.3 | 0.15 |
| apost= 3.08 aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 29** NI 16178 NF 16179 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.1600 5.3856 16.3581 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -2413 | -4938 | -212 | -341 | -431 | 8695 | 6.16 | 6.16 | 6.16 | 3.08 | -67.78 | 2956.9 | 0.19 |
| 4 | 0 | -2089 | -4571 | -189 | -298 | -389 | 7610 | 6.16 | 6.16 | 6.16 | 3.08 | -59.32 | 2587.9 | 0.16 |
| 5 | 0 | -1981 | -4447 | -181 | -283 | -373 | 7250 | 6.16 | 6.16 | 6.16 | 3.08 | -56.52 | 2465.5 | 0.15 |
| apost= 3.08 aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -2413 | -5482 | -212 | -341 | -360 | 6962 | 3.08 | 6.16 | 6.16 | 3.08 | -54.28 | 2367.7 | 0.14 |
| 4 | 33 | -2089 | -5061 | -189 | -298 | -326 | 6008 | 3.08 | 6.16 | 6.16 | 3.08 | -46.84 | 2043.3 | 0.11 |
| 5 | 33 | -1981 | -4919 | -181 | -283 | -313 | 5693 | 3.08 | 6.16 | 6.16 | 3.08 | -44.38 | 1935.9 | 0.10 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 67 | -2413 | -6026 | -212 | -341 | -290 | 5049 | 3.08 | 6.16 | 6.16 | 3.08 | -39.36 | 1716.9 | 0.08 |
| 4 | 67 | -2089 | -5551 | -189 | -298 | -263 | 4244 | 3.08 | 6.16 | 6.16 | 3.08 | -18.92 | 156.0 | 0.00 |
| 5 | 67 | -1981 | -5391 | -181 | -283 | -253 | 3978 | 3.08 | 6.16 | 6.16 | 3.08 | -17.73 | 146.2 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 100 | -2413 | -6571 | -212 | -341 | -219 | 2954 | 3.08 | 6.16 | 6.16 | 3.08 | -13.17 | 108.6 | 0.00 |
| 4 | 100 | -2089 | -6042 | -189 | -298 | -200 | 2316 | 3.08 | 6.16 | 6.16 | 3.08 | -10.32 | 85.1 | 0.00 |
| 5 | 100 | -1981 | -5864 | -181 | -283 | -193 | 2107 | 3.08 | 6.16 | 6.16 | 3.08 | -9.39 | 77.4 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -2413 | -7115 | -212 | -341 | -149 | 679 | 3.08 | 6.16 | 6.16 | 3.08 | -3.03 | 25.0 | 0.00 |
| 4 | 133 | -2089 | -6532 | -189 | -298 | -137 | 226 | 3.08 | 6.16 | 6.16 | 3.08 | -1.01 | 8.3 | 0.00 |
| 5 | 133 | -1981 | -6336 | -181 | -283 | -133 | 78 | 3.08 | 6.16 | 6.16 | 3.08 | -0.35 | 2.9 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 166 | -2413 | -7659 | -212 | -341 | -78 | -1777 | 3.08 | 6.16 | 3.08 | 6.16 | -7.92 | 65.3 | 0.00 |
| 4 | 166 | -2089 | -7022 | -189 | -298 | -75 | -2028 | 3.08 | 6.16 | 3.08 | 6.16 | -9.04 | 74.5 | 0.00 |
| 5 | 166 | -1981 | -6808 | -181 | -283 | -73 | -2107 | 3.08 | 6.16 | 3.08 | 6.16 | -9.39 | 77.4 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 200 | -2413 | -8203 | -212 | -341 | -7 | -4414 | 6.16 | 3.08 | 3.08 | 6.16 | -19.67 | 162.2 | 0.00 |
| 4 | 200 | -2089 | -7512 | -189 | -298 | -12 | -4444 | 6.16 | 3.08 | 3.08 | 6.16 | -19.81 | 163.3 | 0.00 |
| 5 | 200 | -1981 | -7280 | -181 | -283 | -13 | -4450 | 6.16 | 3.08 | 3.08 | 6.16 | -19.83 | 163.5 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 233 | -2413 | -8747 | -212 | -341 | 63 | -7232 | 6.16 | 3.08 | 3.08 | 6.16 | -56.37 | 2459.2 | 0.15 |
| 4 | 233 | -2089 | -8002 | -189 | -298 | 51 | -7024 | 6.16 | 3.08 | 3.08 | 6.16 | -54.75 | 2388.5 | 0.14 |
| 5 | 233 | -1981 | -7752 | -181 | -283 | 47 | -6949 | 6.16 | 3.08 | 3.08 | 6.16 | -54.17 | 2363.2 | 0.14 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | -2413 | -9292 | -212 | -341 | 134 | -10230 | 6.16 | 3.08 | 4.62 | 7.70 | -70.59 | 2795.0 | 0.16 |
| 4 | 266 | -2089 | -8493 | -189 | -298 | 114 | -9766 | 6.16 | 3.08 | 4.62 | 7.70 | -67.39 | 2668.2 | 0.15 |
| 5 | 266 | -1981 | -8225 | -181 | -283 | 107 | -9606 | 6.16 | 3.08 | 4.62 | 7.70 | -66.28 | 2624.4 | 0.15 |

apost= 3.08 aant= -- ainf= 1.54 asup= 4.62 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 299 | -2413 | -9836 | -212 | -341 | 204 | -13410 | 6.16 | 3.08 | 4.62 | 9.24 | -86.92 | 3075.4 | 0.17 |
| 4 | 299 | -2089 | -8983 | -189 | -298 | 177 | -12672 | 6.16 | 3.08 | 4.62 | 9.24 | -82.14 | 2906.1 | 0.16 |
| 5 | 299 | -1981 | -8697 | -181 | -283 | 167 | -12419 | 6.16 | 3.08 | 4.62 | 9.24 | -80.50 | 2848.3 | 0.15 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -2413 | -10380 | -212 | -341 | 275 | -15213 | 6.16 | 3.08 | 6.16 | 10.78 | -90.15 | 2996.7 | 0.15 |
| 4 | 333 | -2089 | -9473 | -189 | -298 | 240 | -14319 | 6.16 | 3.08 | 6.16 | 10.78 | -84.85 | 2820.6 | 0.14 |
| 5 | 333 | -1981 | -9169 | -181 | -283 | 227 | -14015 | 6.16 | 3.08 | 6.16 | 10.78 | -83.05 | 2760.6 | 0.14 |

apost= 3.08 aant= -- ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 30** NI 16053 NF 16182 SEZ. Rp B= 35.0 H= 55.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 4.8125 6.1600 5.3856 16.3581 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -542 | 7197 | -155 | -62 | -376 | -4623 | 3.08 | 6.16 | 3.08 | 6.16 | -36.04 | 1572.1 | 0.07 |
| 4 | 0 | -474 | 6349 | -134 | -39 | -329 | -3727 | 3.08 | 6.16 | 3.08 | 6.16 | -16.61 | 137.0 | 0.00 |
| 5 | 0 | -452 | 6067 | -125 | -32 | -311 | -3434 | 3.08 | 6.16 | 3.08 | 6.16 | -15.31 | 126.2 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 35 | -542 | 6626 | -155 | -62 | -321 | -2208 | 3.08 | 6.16 | 3.08 | 6.16 | -9.84 | 81.1 | 0.00 |
| 4 | 35 | -474 | 5834 | -134 | -39 | -282 | -1599 | 3.08 | 6.16 | 3.08 | 6.16 | -7.13 | 58.8 | 0.00 |
| 5 | 35 | -452 | 5571 | -125 | -32 | -267 | -1401 | 3.08 | 6.16 | 3.08 | 6.16 | -6.24 | 51.5 | 0.00 |

apost= -- aant= 3.08 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 70 | -542 | 6054 | -155 | -62 | -267 | 7 | 3.08 | 6.16 | 6.16 | 6.16 | -0.03 | 0.3 | 0.00 |
| 4 | 70 | -474 | 5319 | -134 | -39 | -235 | 349 | 3.08 | 6.16 | 6.16 | 6.16 | -1.50 | 12.7 | 0.00 |
| 5 | 70 | -452 | 5075 | -125 | -32 | -224 | 459 | 3.08 | 6.16 | 6.16 | 6.16 | -1.98 | 16.6 | 0.00 |

apost= -- aant= 3.08 ainf= 3.08 asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 105 | -542 | 5483 | -155 | -62 | -213 | 2022 | 3.08 | 6.16 | 6.16 | 3.08 | -9.01 | 74.3 | 0.00 |
| 4 | 105 | -474 | 4804 | -134 | -39 | -189 | 2117 | 3.08 | 6.16 | 6.16 | 3.08 | -9.44 | 77.8 | 0.00 |
| 5 | 105 | -452 | 4578 | -125 | -32 | -180 | 2145 | 3.08 | 6.16 | 6.16 | 3.08 | -9.56 | 78.8 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 140 | -542 | 4911 | -155 | -62 | -159 | 3838 | 3.08 | 6.16 | 6.16 | 3.08 | -17.11 | 141.0 | 0.00 |
| 4 | 140 | -474 | 4289 | -134 | -39 | -142 | 3706 | 3.08 | 6.16 | 6.16 | 3.08 | -16.52 | 136.2 | 0.00 |
| 5 | 140 | -452 | 4082 | -125 | -32 | -136 | 3658 | 3.08 | 6.16 | 6.16 | 3.08 | -16.30 | 134.4 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 175 | -542 | 4340 | -155 | -62 | -104 | 5454 | 3.08 | 6.16 | 6.16 | 3.08 | -42.52 | 1854.8 | 0.10 |
| 4 | 175 | -474 | 3774 | -134 | -39 | -95 | 5114 | 3.08 | 6.16 | 6.16 | 3.08 | -39.87 | 1739.0 | 0.08 |
| 5 | 175 | -452 | 3586 | -125 | -32 | -92 | 4997 | 3.08 | 6.16 | 6.16 | 3.08 | -38.96 | 1699.4 | 0.08 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 210 | -542 | 3768 | -155 | -62 | -50 | 6871 | 3.08 | 6.16 | 6.16 | 3.08 | -53.56 | 2336.5 | 0.14 |
| 4 | 210 | -474 | 3258 | -134 | -39 | -49 | 6342 | 3.08 | 6.16 | 6.16 | 3.08 | -49.44 | 2156.8 | 0.12 |
| 5 | 210 | -452 | 3090 | -125 | -32 | -48 | 6163 | 3.08 | 6.16 | 6.16 | 3.08 | -48.05 | 2095.9 | 0.12 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 245 | -542 | 3197 | -155 | -62 | 4 | 8088 | 3.08 | 6.16 | 6.16 | 3.08 | -63.05 | 2750.3 | 0.17 |
| 4 | 245 | -474 | 2743 | -134 | -39 | -2 | 7391 | 3.08 | 6.16 | 6.16 | 3.08 | -57.61 | 2513.3 | 0.15 |
| 5 | 245 | -452 | 2594 | -125 | -32 | -5 | 7156 | 3.08 | 6.16 | 6.16 | 3.08 | -55.79 | 2433.5 | 0.14 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 279 | -542 | 2625 | -155 | -62 | 58 | 9105 | 6.16 | 3.08 | 7.70 | 3.08 | -65.50 | 2498.5 | 0.14 |
| 4 | 279 | -474 | 2228 | -134 | -39 | 45 | 8259 | 6.16 | 3.08 | 7.70 | 3.08 | -59.42 | 2266.4 | 0.12 |
| 5 | 279 | -452 | 2097 | -125 | -32 | 39 | 7975 | 6.16 | 3.08 | 7.70 | 3.08 | -57.38 | 2188.6 | 0.12 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 314 | -542 | 2053 | -155 | -62 | 113 | 9922 | 6.16 | 3.08 | 7.70 | 3.08 | -71.38 | 2722.8 | 0.16 |
| 4 | 314 | -474 | 1713 | -134 | -39 | 91 | 8947 | 6.16 | 3.08 | 7.70 | 3.08 | -64.37 | 2455.4 | 0.14 |
| 5 | 314 | -452 | 1601 | -125 | -32 | 83 | 8621 | 6.16 | 3.08 | 7.70 | 3.08 | -62.02 | 2365.9 | 0.13 |

apost= 3.08 aant= --  ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 349 | -542 | 1482 | -155 | -62 | 167 | 10540 | 6.16 | 6.16 | 7.70 | 3.08 | -75.83 | 2892.4 | 0.17 |
| 4 | 349 | -474 | 1198 | -134 | -39 | 138 | 9456 | 6.16 | 6.16 | 7.70 | 3.08 | -68.03 | 2594.9 | 0.15 |
| 5 | 349 | -452 | 1105 | -125 | -32 | 127 | 9094 | 6.16 | 6.16 | 7.70 | 3.08 | -65.42 | 2495.6 | 0.14 |

apost= 3.08 aant= 3.08 ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 31**  NI 16182  NF 16183  SEZ.  Rp  B= 35.0  H= 55.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  4.8125  6.1600  5.3856  16.3581  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -435 | -5135 | -407 | -69 | -590 | 11070 | 6.16 | 6.16 | 7.70 | 3.08 | -79.64 | 3037.8 | 0.18 |
| 4 | 0 | -389 | -4799 | -371 | -119 | -540 | 9976 | 6.16 | 6.16 | 7.70 | 3.08 | -71.77 | 2737.6 | 0.16 |
| 5 | 0 | -374 | -4682 | -358 | -134 | -522 | 9607 | 6.16 | 6.16 | 7.70 | 3.08 | -69.12 | 2636.3 | 0.15 |

apost= 3.08 aant= 3.08 ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -435 | -5679 | -407 | -69 | -455 | 9273 | 3.08 | 6.16 | 7.70 | 3.08 | -66.71 | 2544.6 | 0.14 |
| 4 | 33 | -389 | -5289 | -371 | -119 | -416 | 8299 | 3.08 | 6.16 | 7.70 | 3.08 | -59.70 | 2277.4 | 0.13 |
| 5 | 33 | -374 | -5154 | -358 | -134 | -402 | 7972 | 3.08 | 6.16 | 7.70 | 3.08 | -57.35 | 2187.7 | 0.12 |

apost= --  aant= 3.08 ainf= 4.62 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 67 | -435 | -6222 | -407 | -69 | -320 | 7295 | 3.08 | 6.16 | 6.16 | 3.08 | -56.87 | 2480.7 | 0.15 |
| 4 | 67 | -389 | -5779 | -371 | -119 | -293 | 6459 | 3.08 | 6.16 | 6.16 | 3.08 | -50.35 | 2196.4 | 0.12 |
| 5 | 67 | -374 | -5627 | -358 | -134 | -283 | 6180 | 3.08 | 6.16 | 6.16 | 3.08 | -48.18 | 2101.6 | 0.12 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 100 | -435 | -6765 | -407 | -69 | -184 | 5136 | 3.08 | 6.16 | 6.16 | 3.08 | -40.04 | 1746.6 | 0.09 |
| 4 | 100 | -389 | -6270 | -371 | -119 | -169 | 4456 | 3.08 | 6.16 | 6.16 | 3.08 | -34.73 | 1515.2 | 0.06 |
| 5 | 100 | -374 | -6099 | -358 | -134 | -164 | 4231 | 3.08 | 6.16 | 6.16 | 3.08 | -18.86 | 155.5 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -435 | -7309 | -407 | -69 | -49 | 2796 | 3.08 | 6.16 | 6.16 | 3.08 | -12.46 | 102.8 | 0.00 |
| 4 | 133 | -389 | -6760 | -371 | -119 | -46 | 2289 | 3.08 | 6.16 | 6.16 | 3.08 | -10.20 | 84.1 | 0.00 |
| 5 | 133 | -374 | -6571 | -358 | -134 | -45 | 2125 | 3.08 | 6.16 | 6.16 | 3.08 | -9.47 | 78.1 | 0.00 |

apost= --  aant= 3.08 ainf= 3.08 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 166 | -435 | -7853 | -407 | -69 | 86 | 276 | 6.16 | 3.08 | 6.16 | 6.16 | -1.19 | 10.0 | 0.00 |
| 4 | 166 | -389 | -7250 | -371 | -119 | 78 | -40 | 6.16 | 3.08 | 6.16 | 6.16 | -0.17 | 1.4 | 0.00 |
| 5 | 166 | -374 | -7044 | -358 | -134 | 74 | -139 | 6.16 | 3.08 | 6.16 | 6.16 | -0.60 | 5.0 | 0.00 |

apost= 3.08 aant= --  ainf= 3.08 asup= 3.08  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 200 | -435 | -8396 | -407 | -69 | 221 | -2426 | 6.16 | 3.08 | 3.08 | 6.16 | -10.81 | 89.1 | 0.00 |
| 4 | 200 | -389 | -7740 | -371 | -119 | 201 | -2532 | 6.16 | 3.08 | 3.08 | 6.16 | -11.28 | 93.0 | 0.00 |
| 5 | 200 | -374 | -7516 | -358 | -134 | 193 | -2559 | 6.16 | 3.08 | 3.08 | 6.16 | -11.41 | 94.0 | 0.00 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 233 | -435 | -8940 | -407 | -69 | 357 | -5308 | 6.16 | 3.08 | 3.08 | 6.16 | -41.38 | 1805.1 | 0.09 |
| 4 | 233 | -389 | -8230 | -371 | -119 | 324 | -5187 | 6.16 | 3.08 | 3.08 | 6.16 | -40.43 | 1763.9 | 0.09 |
| 5 | 233 | -374 | -7988 | -358 | -134 | 313 | -5136 | 6.16 | 3.08 | 3.08 | 6.16 | -40.04 | 1746.6 | 0.09 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 266 | -435 | -9483 | -407 | -69 | 492 | -8371 | 6.16 | 3.08 | 3.08 | 6.16 | -65.26 | 2846.8 | 0.18 |
| 4 | 266 | -389 | -8721 | -371 | -119 | 448 | -8005 | 6.16 | 3.08 | 3.08 | 6.16 | -62.40 | 2722.2 | 0.17 |
| 5 | 266 | -374 | -8460 | -358 | -134 | 432 | -7870 | 6.16 | 3.08 | 3.08 | 6.16 | -61.35 | 2676.5 | 0.16 |

apost= 3.08 aant= -- ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 299 | -435 | -10026 | -407 | -69 | 627 | -11615 | 6.16 | 3.08 | 4.62 | 9.24 | -75.29 | 2663.8 | 0.14 |
| 4 | 299 | -389 | -9211 | -371 | -119 | 571 | -10986 | 6.16 | 3.08 | 4.62 | 9.24 | -71.21 | 2519.5 | 0.13 |
| 5 | 299 | -374 | -8933 | -358 | -134 | 551 | -10762 | 6.16 | 3.08 | 4.62 | 9.24 | -69.76 | 2468.1 | 0.13 |

apost= 3.08 aant= -- ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -435 | -10570 | -407 | -69 | 763 | -13455 | 6.16 | 3.08 | 6.16 | 10.78 | -79.73 | 2650.3 | 0.14 |
| 4 | 333 | -389 | -9701 | -371 | -119 | 695 | -12675 | 6.16 | 3.08 | 6.16 | 10.78 | -75.11 | 2496.7 | 0.13 |
| 5 | 333 | -374 | -9405 | -358 | -134 | 670 | -12399 | 6.16 | 3.08 | 6.16 | 10.78 | -73.48 | 2442.4 | 0.12 |

apost= 3.08 aant= -- ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 32** NI 16179 NF 16180 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 3.1500 2.7540 12.9040 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -3983 | 11000 | -570 | -2156 | -1235 | -19470 | 4.62 | 9.24 | 6.16 | 10.78 | -72.24 | 2937.4 | 0.16 |
| 4 | 0 | -3488 | 10210 | -508 | -1920 | -1096 | -18399 | 4.62 | 9.24 | 6.16 | 10.78 | -68.27 | 2775.7 | 0.15 |
| 5 | 0 | -3323 | 9945 | -486 | -1841 | -1048 | -18028 | 4.62 | 9.24 | 6.16 | 10.78 | -66.89 | 2719.9 | 0.15 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -3983 | 10563 | -570 | -2156 | -1042 | -17471 | 4.62 | 9.24 | 4.62 | 9.24 | -70.63 | 3067.9 | 0.18 |
| 4 | 34 | -3488 | 9801 | -508 | -1920 | -924 | -16543 | 4.62 | 9.24 | 4.62 | 9.24 | -66.88 | 2905.0 | 0.16 |
| 5 | 34 | -3323 | 9546 | -486 | -1841 | -883 | -16222 | 4.62 | 9.24 | 4.62 | 9.24 | -65.58 | 2848.6 | 0.16 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -3983 | 10127 | -570 | -2156 | -849 | -13969 | 4.62 | 9.24 | 4.62 | 9.24 | -56.48 | 2453.0 | 0.13 |
| 4 | 68 | -3488 | 9392 | -508 | -1920 | -752 | -13295 | 4.62 | 9.24 | 4.62 | 9.24 | -53.75 | 2334.6 | 0.12 |
| 5 | 68 | -3323 | 9146 | -486 | -1841 | -719 | -13059 | 4.62 | 9.24 | 4.62 | 9.24 | -52.80 | 2293.1 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 102 | -3983 | 9690 | -570 | -2156 | -656 | -10616 | 4.62 | 9.24 | 4.62 | 9.24 | -42.92 | 1864.1 | 0.09 |
| 4 | 102 | -3488 | 8984 | -508 | -1920 | -580 | -10185 | 4.62 | 9.24 | 4.62 | 9.24 | -41.18 | 1788.5 | 0.08 |
| 5 | 102 | -3323 | 8747 | -486 | -1841 | -554 | -10031 | 4.62 | 9.24 | 4.62 | 9.24 | -40.56 | 1761.5 | 0.08 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 135 | -3983 | 9254 | -570 | -2156 | -464 | -7410 | 4.62 | 9.24 | 4.62 | 9.24 | -17.73 | 149.6 | 0.00 |
| 4 | 135 | -3488 | 8575 | -508 | -1920 | -408 | -7213 | 4.62 | 9.24 | 4.62 | 9.24 | -17.26 | 145.7 | 0.00 |
| 5 | 135 | -3323 | 8347 | -486 | -1841 | -390 | -7139 | 4.62 | 9.24 | 4.62 | 9.24 | -17.08 | 144.2 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 169 | -3983 | 8817 | -570 | -2156 | -271 | -4352 | 4.62 | 9.24 | 4.62 | 9.24 | -10.41 | 87.9 | 0.00 |
| 4 | 169 | -3488 | 8166 | -508 | -1920 | -237 | -4380 | 4.62 | 9.24 | 4.62 | 9.24 | -10.48 | 88.4 | 0.00 |
| 5 | 169 | -3323 | 7948 | -486 | -1841 | -225 | -4381 | 4.62 | 9.24 | 4.62 | 9.24 | -10.48 | 88.5 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 203 | -3983 | 8380 | -570 | -2156 | -78 | -1442 | 4.62 | 9.24 | 4.62 | 9.24 | -3.45 | 29.1 | 0.00 |
| 4 | 203 | -3488 | 7757 | -508 | -1920 | -65 | -1685 | 4.62 | 9.24 | 4.62 | 9.24 | -4.03 | 34.0 | 0.00 |
| 5 | 203 | -3323 | 7548 | -486 | -1841 | -61 | -1759 | 4.62 | 9.24 | 4.62 | 9.24 | -4.21 | 35.5 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 237 | -3983 | 7944 | -570 | -2156 | 115 | 1320 | 9.24 | 4.62 | 9.24 | 4.62 | -3.16 | 26.7 | 0.00 |
| 4 | 237 | -3488 | 7348 | -508 | -1920 | 107 | 871 | 9.24 | 4.62 | 9.24 | 4.62 | -2.09 | 17.6 | 0.00 |
| 5 | 237 | -3323 | 7149 | -486 | -1841 | 104 | 728 | 9.24 | 4.62 | 9.24 | 4.62 | -1.74 | 14.7 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 271 | -3983 | 7507 | -570 | -2156 | 308 | 3935 | 9.24 | 4.62 | 9.24 | 4.62 | -9.41 | 79.4 | 0.00 |
| 4 | 271 | -3488 | 6940 | -508 | -1920 | 279 | 3290 | 9.24 | 4.62 | 9.24 | 4.62 | -7.87 | 66.4 | 0.00 |
| 5 | 271 | -3323 | 6749 | -486 | -1841 | 268 | 3079 | 9.24 | 4.62 | 9.24 | 4.62 | -7.37 | 62.2 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | -3983 | 7071 | -570 | -2156 | 501 | 6401 | 9.24 | 4.62 | 9.24 | 4.62 | -15.32 | 129.3 | 0.00 |
| 4 | 305 | -3488 | 6531 | -508 | -1920 | 451 | 5570 | 9.24 | 4.62 | 9.24 | 4.62 | -13.33 | 112.5 | 0.00 |
| 5 | 305 | -3323 | 6350 | -486 | -1841 | 433 | 5296 | 9.24 | 4.62 | 9.24 | 4.62 | -12.67 | 106.9 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | -3983 | 6634 | -570 | -2156 | 694 | 8720 | 9.24 | 4.62 | 9.24 | 4.62 | -35.25 | 1531.2 | 0.06 |
| 4 | 338 | -3488 | 6122 | -508 | -1920 | 623 | 7711 | 9.24 | 4.62 | 9.24 | 4.62 | -18.45 | 155.7 | 0.00 |
| 5 | 338 | -3323 | 5950 | -486 | -1841 | 598 | 7377 | 9.24 | 4.62 | 9.24 | 4.62 | -17.65 | 149.0 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 33**  NI 16180  NF 16181  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  3.1500  2.7540  12.9040  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -3612 | 3407 | -183 | -132 | 19 | 8849 | 9.24 | 4.62 | 9.24 | 4.62 | -35.78 | 1553.9 | 0.06 |
| 4 | 0 | -3164 | 3254 | -147 | -116 | 33 | 7821 | 9.24 | 4.62 | 9.24 | 4.62 | -18.71 | 157.9 | 0.00 |
| 5 | 0 | -3015 | 3202 | -136 | -110 | 37 | 7481 | 9.24 | 4.62 | 9.24 | 4.62 | -17.90 | 151.1 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -3612 | 2986 | -183 | -132 | 79 | 9892 | 9.24 | 3.08 | 9.24 | 3.08 | -41.32 | 1743.7 | 0.08 |
| 4 | 33 | -3164 | 2860 | -147 | -116 | 81 | 8818 | 9.24 | 3.08 | 9.24 | 3.08 | -36.84 | 1554.4 | 0.06 |
| 5 | 33 | -3015 | 2817 | -136 | -110 | 81 | 8462 | 9.24 | 3.08 | 9.24 | 3.08 | -35.35 | 1491.6 | 0.06 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | -3612 | 2565 | -183 | -132 | 138 | 10798 | 9.24 | 3.08 | 9.24 | 3.08 | -45.11 | 1903.3 | 0.09 |
| 4 | 65 | -3164 | 2466 | -147 | -116 | 129 | 9687 | 9.24 | 3.08 | 9.24 | 3.08 | -40.47 | 1707.5 | 0.08 |
| 5 | 65 | -3015 | 2432 | -136 | -110 | 125 | 9318 | 9.24 | 3.08 | 9.24 | 3.08 | -38.92 | 1642.4 | 0.07 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | -3612 | 2144 | -183 | -132 | 198 | 11567 | 9.24 | 3.08 | 9.24 | 3.08 | -48.32 | 2038.8 | 0.10 |
| 4 | 98 | -3164 | 2072 | -147 | -116 | 177 | 10428 | 9.24 | 3.08 | 9.24 | 3.08 | -43.56 | 1838.0 | 0.09 |
| 5 | 98 | -3015 | 2047 | -136 | -110 | 170 | 10048 | 9.24 | 3.08 | 9.24 | 3.08 | -41.97 | 1771.1 | 0.08 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | -3612 | 1723 | -183 | -132 | 258 | 12198 | 9.24 | 3.08 | 9.24 | 3.08 | -50.96 | 2150.1 | 0.11 |
| 4 | 131 | -3164 | 1678 | -147 | -116 | 225 | 11039 | 9.24 | 3.08 | 9.24 | 3.08 | -46.12 | 1945.9 | 0.09 |
| 5 | 131 | -3015 | 1662 | -136 | -110 | 214 | 10652 | 9.24 | 3.08 | 9.24 | 3.08 | -44.50 | 1877.6 | 0.09 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | -3612 | 1302 | -183 | -132 | 318 | 12692 | 9.24 | 3.08 | 9.24 | 3.08 | -53.02 | 2237.1 | 0.12 |
| 4 | 163 | -3164 | 1283 | -147 | -116 | 273 | 11523 | 9.24 | 3.08 | 9.24 | 3.08 | -48.13 | 2031.0 | 0.10 |
| 5 | 163 | -3015 | 1276 | -136 | -110 | 258 | 11131 | 9.24 | 3.08 | 9.24 | 3.08 | -46.50 | 1962.0 | 0.10 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -3612 | 881 | -183 | -132 | 378 | 13048 | 9.24 | 3.08 | 9.24 | 3.08 | -54.51 | 2299.9 | 0.12 |
| 4 | 196 | -3164 | 889 | -147 | -116 | 322 | 11877 | 9.24 | 3.08 | 9.24 | 3.08 | -49.62 | 2093.5 | 0.11 |
| 5 | 196 | -3015 | 891 | -136 | -110 | 303 | 11484 | 9.24 | 3.08 | 9.24 | 3.08 | -47.97 | 2024.2 | 0.10 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | -3612 | 460 | -183 | -132 | 438 | 13267 | 9.24 | 3.08 | 9.24 | 3.08 | -55.42 | 2338.5 | 0.12 |
| 4 | 228 | -3164 | 495 | -147 | -116 | 370 | 12103 | 9.24 | 3.08 | 9.24 | 3.08 | -50.56 | 2133.4 | 0.11 |
| 5 | 228 | -3015 | 506 | -136 | -110 | 347 | 11712 | 9.24 | 3.08 | 9.24 | 3.08 | -48.92 | 2064.3 | 0.10 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -3612 | 38 | -183 | -132 | 498 | 13349 | 9.24 | 3.08 | 9.24 | 3.08 | -55.76 | 2352.9 | 0.13 |
| 4 | 261 | -3164 | 101 | -147 | -116 | 418 | 12201 | 9.24 | 3.08 | 9.24 | 3.08 | -50.97 | 2150.6 | 0.11 |
| 5 | 261 | -3015 | 121 | -136 | -110 | 391 | 11813 | 9.24 | 3.08 | 9.24 | 3.08 | -49.35 | 2082.3 | 0.11 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | -3612 | -383 | -183 | -132 | 557 | 13293 | 9.24 | 3.08 | 9.24 | 3.08 | -55.53 | 2343.1 | 0.12 |
| 4 | 294 | -3164 | -293 | -147 | -116 | 466 | 12170 | 9.24 | 3.08 | 9.24 | 3.08 | -50.84 | 2145.1 | 0.11 |
| 5 | 294 | -3015 | -264 | -136 | -110 | 436 | 11789 | 9.24 | 3.08 | 9.24 | 3.08 | -49.25 | 2078.1 | 0.10 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | -3612 | -804 | -183 | -132 | 617 | 13100 | 9.24 | 4.62 | 9.24 | 3.08 | -54.72 | 2309.1 | 0.12 |
| 4 | 326 | -3164 | -687 | -147 | -116 | 514 | 12010 | 9.24 | 4.62 | 9.24 | 3.08 | -50.17 | 2116.9 | 0.11 |
| 5 | 326 | -3015 | -649 | -136 | -110 | 480 | 11640 | 9.24 | 4.62 | 9.24 | 3.08 | -48.62 | 2051.7 | 0.10 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 34** NI 16181 NF 16270 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 3.1500 2.7540 12.9040 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -3456 | -3372 | 97 | 678 | 332 | 12760 | 9.24 | 4.62 | 9.24 | 3.08 | -53.30 | 2249.1 | 0.12 |
| 4 | 0 | -3026 | -2968 | 71 | 603 | 262 | 11710 | 9.24 | 4.62 | 9.24 | 3.08 | -48.92 | 2064.1 | 0.10 |
| 5 | 0 | -2884 | -2834 | 63 | 578 | 240 | 11360 | 9.24 | 4.62 | 9.24 | 3.08 | -47.46 | 2002.4 | 0.10 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 34 | -3456 | -3813 | 97 | 678 | 299 | 11532 | 9.24 | 4.62 | 9.24 | 3.08 | -48.17 | 2032.6 | 0.10 |
| 4 | 34 | -3026 | -3381 | 71 | 603 | 238 | 10625 | 9.24 | 4.62 | 9.24 | 3.08 | -44.38 | 1872.8 | 0.09 |
| 5 | 34 | -2884 | -3238 | 63 | 578 | 218 | 10322 | 9.24 | 4.62 | 9.24 | 3.08 | -43.12 | 1819.5 | 0.08 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 68 | -3456 | -4254 | 97 | 678 | 266 | 10152 | 9.24 | 4.62 | 9.24 | 3.08 | -42.41 | 1789.5 | 0.08 |
| 4 | 68 | -3026 | -3794 | 71 | 603 | 213 | 9398 | 9.24 | 4.62 | 9.24 | 3.08 | -39.26 | 1656.6 | 0.07 |
| 5 | 68 | -2884 | -3641 | 63 | 578 | 197 | 9147 | 9.24 | 4.62 | 9.24 | 3.08 | -38.21 | 1612.3 | 0.07 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 103 | -3456 | -4696 | 97 | 678 | 233 | 8622 | 9.24 | 4.62 | 9.24 | 3.08 | -36.02 | 1519.8 | 0.06 |
| 4 | 103 | -3026 | -4207 | 71 | 603 | 189 | 8031 | 9.24 | 4.62 | 9.24 | 3.08 | -19.45 | 163.0 | 0.00 |
| 5 | 103 | -2884 | -4045 | 63 | 578 | 175 | 7833 | 9.24 | 4.62 | 9.24 | 3.08 | -18.97 | 159.0 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 137 | -3456 | -5137 | 97 | 678 | 200 | 6941 | 9.24 | 4.62 | 9.24 | 3.08 | -16.81 | 140.9 | 0.00 |
| 4 | 137 | -3026 | -4620 | 71 | 603 | 165 | 6522 | 9.24 | 4.62 | 9.24 | 3.08 | -15.80 | 132.4 | 0.00 |
| 5 | 137 | -2884 | -4448 | 63 | 578 | 154 | 6382 | 9.24 | 4.62 | 9.24 | 3.08 | -15.46 | 129.5 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 171 | -3456 | -5578 | 97 | 678 | 166 | 5110 | 9.24 | 4.62 | 9.24 | 3.08 | -12.38 | 103.7 | 0.00 |
| 4 | 171 | -3026 | -5033 | 71 | 603 | 141 | 4872 | 9.24 | 4.62 | 9.24 | 3.08 | -11.80 | 98.9 | 0.00 |
| 5 | 171 | -2884 | -4852 | 63 | 578 | 132 | 4792 | 9.24 | 4.62 | 9.24 | 3.08 | -11.61 | 97.3 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 205 | -3456 | -6019 | 97 | 678 | 133 | 3127 | 9.24 | 4.62 | 9.24 | 3.08 | -7.58 | 63.5 | 0.00 |
| 4 | 205 | -3026 | -5445 | 71 | 603 | 116 | 3082 | 9.24 | 4.62 | 9.24 | 3.08 | -7.46 | 62.5 | 0.00 |
| 5 | 205 | -2884 | -5255 | 63 | 578 | 111 | 3065 | 9.24 | 4.62 | 9.24 | 3.08 | -7.42 | 62.2 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 239 | -3456 | -6460 | 97 | 678 | 100 | 994 | 9.24 | 4.62 | 9.24 | 3.08 | -2.41 | 20.2 | 0.00 |
| 4 | 239 | -3026 | -5858 | 71 | 603 | 92 | 1149 | 9.24 | 4.62 | 9.24 | 3.08 | -2.78 | 23.3 | 0.00 |
| 5 | 239 | -2884 | -5659 | 63 | 578 | 89 | 1200 | 9.24 | 4.62 | 9.24 | 3.08 | -2.91 | 24.3 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 273 | -3456 | -6902 | 97 | 678 | 67 | -1290 | 9.24 | 4.62 | 4.62 | 9.24 | -3.09 | 26.1 | 0.00 |
| 4 | 273 | -3026 | -6271 | 71 | 603 | 68 | -924 | 9.24 | 4.62 | 4.62 | 9.24 | -2.21 | 18.7 | 0.00 |
| 5 | 273 | -2884 | -6062 | 63 | 578 | 68 | -804 | 9.24 | 4.62 | 4.62 | 9.24 | -1.92 | 16.2 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 308 | -3456 | -7343 | 97 | 678 | 34 | -3725 | 9.24 | 4.62 | 4.62 | 9.24 | -8.91 | 75.2 | 0.00 |
| 4 | 308 | -3026 | -6684 | 71 | 603 | 43 | -3138 | 9.24 | 4.62 | 4.62 | 9.24 | -7.51 | 63.4 | 0.00 |
| 5 | 308 | -2884 | -6466 | 63 | 578 | 46 | -2945 | 9.24 | 4.62 | 4.62 | 9.24 | -7.05 | 59.5 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 342 | -3456 | -7784 | 97 | 678 | 1 | -6311 | 9.24 | 4.62 | 4.62 | 9.24 | -15.10 | 127.4 | 0.00 |
| 4 | 342 | -3026 | -7097 | 71 | 603 | 19 | -5494 | 9.24 | 4.62 | 4.62 | 9.24 | -13.15 | 110.9 | 0.00 |
| 5 | 342 | -2884 | -6869 | 63 | 578 | 24 | -5224 | 9.24 | 4.62 | 4.62 | 9.24 | -12.50 | 105.5 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 35** NI 16175 NF 16176 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -5680 | 15510 | -408 | -1126 | -814 | -24394 | 4.62 | 9.24 | 6.16 | 12.32 | -86.45 | 3237.4 | 0.17 |
| 4 | 0 | -5029 | 14130 | -364 | -1004 | -724 | -22651 | 4.62 | 9.24 | 6.16 | 12.32 | -80.28 | 3006.1 | 0.16 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 0 | -4815 | 13660 | -348 | -963 | -692 | -22071 | 4.62 | 9.24 | 6.16 | 12.32 | -78.22 | 2929.2 | 0.15 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -5680 | 14882 | -408 | -1126 | -676 | -21577 | 4.62 | 9.24 | 6.16 | 10.78 | -80.06 | 3255.3 | 0.18 |
| 4 | 34 | -5029 | 13557 | -364 | -1004 | -600 | -20086 | 4.62 | 9.24 | 6.16 | 10.78 | -74.53 | 3030.4 | 0.16 |
| 5 | 34 | -4815 | 13106 | -348 | -963 | -574 | -19589 | 4.62 | 9.24 | 6.16 | 10.78 | -72.68 | 2955.4 | 0.16 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -5680 | 14254 | -408 | -1126 | -537 | -16646 | 4.62 | 9.24 | 4.62 | 9.24 | -67.30 | 2923.1 | 0.17 |
| 4 | 68 | -5029 | 12983 | -364 | -1004 | -477 | -15596 | 4.62 | 9.24 | 4.62 | 9.24 | -63.06 | 2738.7 | 0.15 |
| 5 | 68 | -4815 | 12551 | -348 | -963 | -456 | -15246 | 4.62 | 9.24 | 4.62 | 9.24 | -61.64 | 2677.2 | 0.15 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 102 | -5680 | 13627 | -408 | -1126 | -399 | -11928 | 4.62 | 9.24 | 3.08 | 9.24 | -49.83 | 2102.5 | 0.11 |
| 4 | 102 | -5029 | 12410 | -364 | -1004 | -354 | -11301 | 4.62 | 9.24 | 3.08 | 9.24 | -47.21 | 1991.9 | 0.10 |
| 5 | 102 | -4815 | 11997 | -348 | -963 | -339 | -11090 | 4.62 | 9.24 | 3.08 | 9.24 | -46.33 | 1954.9 | 0.10 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 135 | -5680 | 12999 | -408 | -1126 | -261 | -7423 | 4.62 | 9.24 | 3.08 | 9.24 | -17.98 | 150.6 | 0.00 |
| 4 | 135 | -5029 | 11836 | -364 | -1004 | -231 | -7199 | 4.62 | 9.24 | 3.08 | 9.24 | -17.44 | 146.1 | 0.00 |
| 5 | 135 | -4815 | 11442 | -348 | -963 | -221 | -7123 | 4.62 | 9.24 | 3.08 | 9.24 | -17.25 | 144.6 | 0.00 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 169 | -5680 | 12371 | -408 | -1126 | -123 | -3129 | 4.62 | 9.24 | 3.08 | 9.24 | -7.58 | 63.5 | 0.00 |
| 4 | 169 | -5029 | 11263 | -364 | -1004 | -108 | -3291 | 4.62 | 9.24 | 3.08 | 9.24 | -7.97 | 66.8 | 0.00 |
| 5 | 169 | -4815 | 10888 | -348 | -963 | -103 | -3343 | 4.62 | 9.24 | 3.08 | 9.24 | -8.10 | 67.8 | 0.00 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 203 | -5680 | 11743 | -408 | -1126 | 15 | 951 | 4.62 | 4.62 | 9.24 | 3.08 | -2.30 | 19.3 | 0.00 |
| 4 | 203 | -5029 | 10690 | -364 | -1004 | 15 | 423 | 4.62 | 4.62 | 9.24 | 3.08 | -1.03 | 8.6 | 0.00 |
| 5 | 203 | -4815 | 10334 | -348 | -963 | 15 | 249 | 4.62 | 4.62 | 9.24 | 3.08 | -0.60 | 5.1 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 237 | -5680 | 11115 | -408 | -1126 | 154 | 4820 | 9.24 | 4.62 | 9.24 | 3.08 | -11.68 | 97.8 | 0.00 |
| 4 | 237 | -5029 | 10116 | -364 | -1004 | 138 | 3943 | 9.24 | 4.62 | 9.24 | 3.08 | -9.55 | 80.0 | 0.00 |
| 5 | 237 | -4815 | 9779 | -348 | -963 | 133 | 3654 | 9.24 | 4.62 | 9.24 | 3.08 | -8.85 | 74.1 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 271 | -5680 | 10488 | -408 | -1126 | 292 | 8476 | 9.24 | 4.62 | 9.24 | 3.08 | -35.41 | 1494.0 | 0.06 |
| 4 | 271 | -5029 | 9543 | -364 | -1004 | 262 | 7270 | 9.24 | 4.62 | 9.24 | 3.08 | -17.61 | 147.5 | 0.00 |
| 5 | 271 | -4815 | 9225 | -348 | -963 | 251 | 6870 | 9.24 | 4.62 | 9.24 | 3.08 | -16.64 | 139.4 | 0.00 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | -5680 | 9860 | -408 | -1126 | 430 | 11919 | 9.24 | 4.62 | 9.24 | 3.08 | -49.79 | 2100.9 | 0.11 |
| 4 | 305 | -5029 | 8969 | -364 | -1004 | 385 | 10402 | 9.24 | 4.62 | 9.24 | 3.08 | -43.45 | 1833.5 | 0.09 |
| 5 | 305 | -4815 | 8670 | -348 | -963 | 368 | 9899 | 9.24 | 4.62 | 9.24 | 3.08 | -41.35 | 1744.8 | 0.08 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | -5680 | 9232 | -408 | -1126 | 568 | 15150 | 9.24 | 9.24 | 9.24 | 3.08 | -63.29 | 2670.4 | 0.15 |
| 4 | 338 | -5029 | 8396 | -364 | -1004 | 508 | 13340 | 9.24 | 9.24 | 9.24 | 3.08 | -55.73 | 2351.4 | 0.12 |
| 5 | 338 | -4815 | 8116 | -348 | -963 | 486 | 12740 | 9.24 | 9.24 | 9.24 | 3.08 | -53.22 | 2245.6 | 0.12 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 36** NI 16176 NF 16177 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -6061 | 4340 | -232 | -63 | -74 | 15130 | 9.24 | 9.24 | 9.24 | 3.08 | -63.20 | 2666.9 | 0.15 |
| 4 | 0 | -5361 | 4053 | -198 | -48 | -55 | 13330 | 9.24 | 9.24 | 9.24 | 3.08 | -55.68 | 2349.6 | 0.12 |
| 5 | 0 | -5131 | 3956 | -187 | -43 | -49 | 12730 | 9.24 | 9.24 | 9.24 | 3.08 | -53.18 | 2243.9 | 0.12 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -6061 | 3735 | -232 | -63 | 1 | 16447 | 3.08 | 9.24 | 9.24 | 3.08 | -68.71 | 2899.1 | 0.16 |
| 4 | 33 | -5361 | 3501 | -198 | -48 | 9 | 14562 | 3.08 | 9.24 | 9.24 | 3.08 | -60.83 | 2566.8 | 0.14 |
| 5 | 33 | -5131 | 3421 | -187 | -43 | 12 | 13933 | 3.08 | 9.24 | 9.24 | 3.08 | -58.20 | 2455.9 | 0.13 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | -6061 | 3130 | -232 | -63 | 77 | 17567 | 9.24 | 3.08 | 9.24 | 3.08 | -73.39 | 3096.5 | 0.18 |
| 4 | 65 | -5361 | 2948 | -198 | -48 | 74 | 15614 | 9.24 | 3.08 | 9.24 | 3.08 | -65.22 | 2752.2 | 0.15 |
| 5 | 65 | -5131 | 2886 | -187 | -43 | 73 | 14962 | 9.24 | 3.08 | 9.24 | 3.08 | -62.50 | 2637.3 | 0.15 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | -6061 | 2525 | -232 | -63 | 152 | 18490 | 9.24 | 3.08 | 9.24 | 3.08 | -77.24 | 3259.1 | 0.19 |
| 4 | 98 | -5361 | 2396 | -198 | -48 | 139 | 16485 | 9.24 | 3.08 | 9.24 | 3.08 | -68.87 | 2905.8 | 0.16 |
| 5 | 98 | -5131 | 2352 | -187 | -43 | 134 | 15816 | 9.24 | 3.08 | 9.24 | 3.08 | -66.07 | 2787.8 | 0.16 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | -6061 | 1920 | -232 | -63 | 228 | 19215 | 9.24 | 3.08 | 10.78 | 3.08 | -75.92 | 2921.3 | 0.16 |
| 4 | 131 | -5361 | 1843 | -198 | -48 | 203 | 17177 | 9.24 | 3.08 | 10.78 | 3.08 | -67.86 | 2611.4 | 0.14 |
| 5 | 131 | -5131 | 1817 | -187 | -43 | 195 | 16496 | 9.24 | 3.08 | 10.78 | 3.08 | -65.17 | 2507.9 | 0.13 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | -6061 | 1315 | -232 | -63 | 304 | 19743 | 9.24 | 3.08 | 10.78 | 3.08 | -78.00 | 3001.5 | 0.16 |
| 4 | 163 | -5361 | 1291 | -198 | -48 | 268 | 17688 | 9.24 | 3.08 | 10.78 | 3.08 | -69.88 | 2689.1 | 0.14 |
| 5 | 163 | -5131 | 1282 | -187 | -43 | 256 | 17001 | 9.24 | 3.08 | 10.78 | 3.08 | -67.17 | 2584.7 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -6061 | 709 | -232 | -63 | 379 | 20073 | 9.24 | 3.08 | 10.78 | 3.08 | -79.31 | 3051.7 | 0.17 |
| 4 | 196 | -5361 | 739 | -198 | -48 | 333 | 18019 | 9.24 | 3.08 | 10.78 | 3.08 | -71.19 | 2739.4 | 0.15 |
| 5 | 196 | -5131 | 747 | -187 | -43 | 317 | 17332 | 9.24 | 3.08 | 10.78 | 3.08 | -68.48 | 2635.0 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | -6061 | 104 | -232 | -63 | 455 | 20206 | 9.24 | 3.08 | 10.78 | 3.08 | -79.83 | 3071.9 | 0.17 |
| 4 | 228 | -5361 | 186 | -198 | -48 | 397 | 18169 | 9.24 | 3.08 | 10.78 | 3.08 | -71.78 | 2762.3 | 0.15 |
| 5 | 228 | -5131 | 212 | -187 | -43 | 378 | 17488 | 9.24 | 3.08 | 10.78 | 3.08 | -69.09 | 2658.7 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -6061 | -501 | -232 | -63 | 530 | 20141 | 9.24 | 3.08 | 10.78 | 3.08 | -79.58 | 3062.1 | 0.17 |
| 4 | 261 | -5361 | -366 | -198 | -48 | 462 | 18140 | 9.24 | 3.08 | 10.78 | 3.08 | -71.67 | 2757.8 | 0.15 |
| 5 | 261 | -5131 | -322 | -187 | -43 | 439 | 17470 | 9.24 | 3.08 | 10.78 | 3.08 | -69.02 | 2656.0 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | -6061 | -1106 | -232 | -63 | 606 | 19879 | 9.24 | 3.08 | 10.78 | 3.08 | -78.54 | 3022.3 | 0.16 |
| 4 | 294 | -5361 | -919 | -198 | -48 | 527 | 17930 | 9.24 | 3.08 | 10.78 | 3.08 | -70.84 | 2725.9 | 0.15 |
| 5 | 294 | -5131 | -857 | -187 | -43 | 500 | 17277 | 9.24 | 3.08 | 10.78 | 3.08 | -68.26 | 2626.7 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | -6061 | -1711 | -232 | -63 | 682 | 19420 | 9.24 | 3.08 | 10.78 | 3.08 | -76.73 | 2952.4 | 0.16 |
| 4 | 326 | -5361 | -1471 | -198 | -48 | 591 | 17540 | 9.24 | 3.08 | 10.78 | 3.08 | -69.30 | 2666.6 | 0.14 |
| 5 | 326 | -5131 | -1392 | -187 | -43 | 561 | 16910 | 9.24 | 3.08 | 10.78 | 3.08 | -66.81 | 2570.8 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 37** NI 16177 NF 16271 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -6426 | -7539 | 437 | 329 | 793 | 19760 | 9.24 | 3.08 | 10.78 | 3.08 | -78.07 | 3004.1 | 0.16 |
| 4 | 0 | -5684 | -6638 | 383 | 292 | 693 | 17830 | 9.24 | 3.08 | 10.78 | 3.08 | -70.44 | 2710.7 | 0.14 |
| 5 | 0 | -5439 | -6340 | 366 | 280 | 660 | 17190 | 9.24 | 3.08 | 10.78 | 3.08 | -67.92 | 2613.4 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -6426 | -8173 | 437 | 329 | 644 | 17073 | 9.24 | 3.08 | 9.24 | 3.08 | -71.32 | 3009.4 | 0.17 |
| 4 | 34 | -5684 | -7217 | 383 | 292 | 562 | 15461 | 9.24 | 3.08 | 9.24 | 3.08 | -64.59 | 2725.3 | 0.15 |
| 5 | 34 | -5439 | -6900 | 366 | 280 | 535 | 14927 | 9.24 | 3.08 | 9.24 | 3.08 | -62.36 | 2631.1 | 0.14 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -6426 | -8807 | 437 | 329 | 494 | 14170 | 9.24 | 3.08 | 9.24 | 3.08 | -59.19 | 2497.7 | 0.14 |
| 4 | 68 | -5684 | -7796 | 383 | 292 | 431 | 12895 | 9.24 | 3.08 | 9.24 | 3.08 | -53.87 | 2272.9 | 0.12 |
| 5 | 68 | -5439 | -7460 | 366 | 280 | 410 | 12473 | 9.24 | 3.08 | 9.24 | 3.08 | -52.10 | 2198.5 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -6426 | -9441 | 437 | 329 | 345 | 11050 | 9.24 | 3.08 | 9.24 | 3.08 | -46.16 | 1947.7 | 0.09 |
| 4 | 103 | -5684 | -8376 | 383 | 292 | 300 | 10131 | 9.24 | 3.08 | 9.24 | 3.08 | -42.32 | 1785.7 | 0.08 |
| 5 | 103 | -5439 | -8020 | 366 | 280 | 285 | 9827 | 9.24 | 3.08 | 9.24 | 3.08 | -41.05 | 1732.1 | 0.08 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 137 | -6426 | -10075 | 437 | 329 | 196 | 7713 | 9.24 | 3.08 | 9.24 | 3.08 | -18.68 | 156.5 | 0.00 |
| 4 | 137 | -5684 | -8955 | 383 | 292 | 169 | 7168 | 9.24 | 3.08 | 9.24 | 3.08 | -17.36 | 145.5 | 0.00 |
| 5 | 137 | -5439 | -8580 | 366 | 280 | 160 | 6989 | 9.24 | 3.08 | 9.24 | 3.08 | -16.93 | 141.8 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -6426 | -10710 | 437 | 329 | 46 | 4159 | 9.24 | 3.08 | 9.24 | 3.08 | -10.08 | 84.4 | 0.00 |
| 4 | 171 | -5684 | -9534 | 383 | 292 | 38 | 4008 | 9.24 | 3.08 | 9.24 | 3.08 | -9.71 | 81.3 | 0.00 |

```
 5   171   -5439   -9140     366      280      35    3960     9.24   3.08   9.24   3.08     -9.59      80.4    0.00

apost= 6.16 aant= --      ainf= 6.16 asup= --       ( e armatura base = 4 X 1.54 )

 3   205   -6426  -11344     437      329    -103     389     3.08   9.24   9.24   3.08     -0.94       7.9    0.00
 4   205   -5684  -10113     383      292     -93     650     3.08   9.24   9.24   3.08     -1.58      13.2    0.00
 5   205   -5439   -9700     366      280     -90     739     3.08   9.24   9.24   3.08     -1.79      15.0    0.00

apost= --      aant= 6.16 ainf= 6.16 asup= --       ( e armatura base = 4 X 1.54 )

 3   239   -6426  -11978     437      329    -252   -3598     3.08   9.24   3.08   9.24     -8.72      73.0    0.00
 4   239   -5684  -10692     383      292    -224   -2905     3.08   9.24   3.08   9.24     -7.04      59.0    0.00
 5   239   -5439  -10260     366      280    -215   -2673     3.08   9.24   3.08   9.24     -6.48      54.3    0.00

apost= --      aant= 6.16 ainf= --      asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   273   -6426  -12612     437      329    -402   -7802     3.08   9.24   4.62   9.24    -18.67     157.5    0.00
 4   273   -5684  -11272     383      292    -355   -6659     3.08   9.24   4.62   9.24    -15.93     134.5    0.00
 5   273   -5439  -10820     366      280    -340   -6277     3.08   9.24   4.62   9.24    -15.02     126.8    0.00

apost= --      aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   308   -6426  -13246     437      329    -551  -12223     3.08   9.24   4.62   9.24    -49.41    2146.3    0.11
 4   308   -5684  -11851     383      292    -486  -10611     3.08   9.24   4.62   9.24    -42.90    1863.2    0.09
 5   308   -5439  -11380     366      280    -465  -10073     3.08   9.24   4.62   9.24    -40.72    1768.8    0.08

apost= --      aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   342   -6426  -13880     437      329    -701  -16860     3.08   9.24   6.16   9.24    -66.03    2950.5    0.17
 4   342   -5684  -12430     383      292    -617  -14760     3.08   9.24   6.16   9.24    -57.81    2583.0    0.14
 5   342   -5439  -11940     366      280    -590  -14060     3.08   9.24   6.16   9.24    -55.07    2460.5    0.13

apost= --      aant= 6.16 ainf= 3.08 asup= 6.16  ( e armatura base = 4 X 1.54 )

ASTA NUM. 38     NI 16171    NF 16172    SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000   6.1600     5.3856  18.5456  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

-------------------------------------------------------------------------------------------------------------------
 NC    x     [Fx]    [Fy]    [Fz]     [Mx]    [My]     Mz   [APOST] [AANT]  AINF   ASUP      Sc          Sf      w
      --     ---------------------     ------------------   ----------------------------     -------------      --
      cm              kg                       kg*m                      cm²                      kg/cm²         mm
-------------------------------------------------------------------------------------------------------------------

 3     0   -6823   16810    -353     -392    -715  -27379     3.08   9.24   7.70  13.85    -90.61    3234.0    0.16
 4     0   -6029   15270    -314     -366    -635  -25280     3.08   9.24   7.70  13.85    -83.66    2986.0    0.15
 5     0   -5767   14760    -301     -358    -608  -24576     3.08   9.24   7.70  13.85    -81.33    2902.9    0.15

apost= --      aant= 6.16 ainf= 4.62 asup= 10.78  ( e armatura base = 4 X 1.54 )

 3    34   -6823   16183    -353     -392    -595  -24315     3.08   9.24   6.16  12.32    -86.18    3227.0    0.17
 4    34   -6029   14697    -314     -366    -529  -22497     3.08   9.24   6.16  12.32    -79.73    2985.7    0.16
 5    34   -5767   14205    -301     -358    -506  -21888     3.08   9.24   6.16  12.32    -77.57    2904.9    0.15

apost= --      aant= 6.16 ainf= 3.08 asup= 9.24  ( e armatura base = 4 X 1.54 )

 3    68   -6823   15556    -353     -392    -476  -18942     3.08   9.24   4.62   9.24    -76.58    3326.3    0.19
 4    68   -6029   14125    -314     -366    -423  -17618     3.08   9.24   4.62   9.24    -71.23    3093.8    0.18
 5    68   -5767   13650    -301     -358    -404  -17174     3.08   9.24   4.62   9.24    -69.43    3015.7    0.17

apost= --      aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   102   -6823   14929    -353     -392    -356  -13782     3.08   9.24   3.08   9.24    -57.57    2429.3    0.13
 4   102   -6029   13552    -314     -366    -316  -12934     3.08   9.24   3.08   9.24    -54.03    2279.8    0.12
 5   102   -5767   13096    -301     -358    -303  -12647     3.08   9.24   3.08   9.24    -52.83    2229.3    0.12

apost= --      aant= 6.16 ainf= --      asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   135   -6823   14302    -353     -392    -237   -8835     3.08   9.24   3.08   9.24    -36.91    1557.2    0.06
 4   135   -6029   12980    -314     -366    -210   -8443     3.08   9.24   3.08   9.24    -35.27    1488.2    0.06
 5   135   -5767   12541    -301     -358    -201   -8309     3.08   9.24   3.08   9.24    -34.71    1464.5    0.06

apost= --      aant= 6.16 ainf= --      asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   169   -6823   13675    -353     -392    -117   -4099     3.08   9.24   3.08   9.24     -9.93      83.2    0.00
 4   169   -6029   12407    -314     -366    -103   -4146     3.08   9.24   3.08   9.24    -10.04      84.1    0.00
 5   169   -5767   11986    -301     -358     -99   -4158     3.08   9.24   3.08   9.24    -10.07      84.4    0.00

apost= --      aant= 6.16 ainf= --      asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   203   -6823   13048    -353     -392       3     423     3.08   9.24   9.24   9.24     -0.98       8.4    0.00
 4   203   -6029   11834    -314     -366       3     -43     3.08   9.24   9.24   9.24     -0.10       0.8    0.00
 5   203   -5767   11431    -301     -358       3    -195     3.08   9.24   9.24   9.24     -0.45       3.9    0.00

apost= --      aant= 6.16 ainf= 6.16 asup= 6.16  ( e armatura base = 4 X 1.54 )

 3   237   -6823   12421    -353     -392     122    4734     9.24   3.08   9.24   3.08    -11.47      96.1    0.00
 4   237   -6029   11262    -314     -366     110    3866     9.24   3.08   9.24   3.08     -9.37      78.5    0.00
 5   237   -5767   10876    -301     -358     105    3581     9.24   3.08   9.24   3.08     -8.67      72.7    0.00

apost= 6.16 aant= --      ainf= 6.16 asup= --       ( e armatura base = 4 X 1.54 )
```

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 271 | -6823 | 11794 | -353 | -392 | 242 | 8832 | 9.24 | 3.08 | 9.24 | 3.08 | -36.89 | 1556.7 | 0.06 |
| 4 | 271 | -6029 | 10689 | -314 | -366 | 216 | 7582 | 9.24 | 3.08 | 9.24 | 3.08 | -18.37 | 153.9 | 0.00 |
| 5 | 271 | -5767 | 10322 | -301 | -358 | 207 | 7168 | 9.24 | 3.08 | 9.24 | 3.08 | -17.36 | 145.5 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | -6823 | 11167 | -353 | -392 | 361 | 12717 | 9.24 | 3.08 | 9.24 | 3.08 | -53.12 | 2241.6 | 0.12 |
| 4 | 305 | -6029 | 10117 | -314 | -366 | 322 | 11103 | 9.24 | 3.08 | 9.24 | 3.08 | -46.38 | 1957.0 | 0.10 |
| 5 | 305 | -5767 | 9767 | -301 | -358 | 309 | 10568 | 9.24 | 3.08 | 9.24 | 3.08 | -44.15 | 1862.8 | 0.09 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | -6823 | 10540 | -353 | -392 | 481 | 16390 | 9.24 | 3.08 | 9.24 | 3.08 | -68.47 | 2889.0 | 0.16 |
| 4 | 338 | -6029 | 9544 | -314 | -366 | 429 | 14430 | 9.24 | 3.08 | 9.24 | 3.08 | -60.28 | 2543.5 | 0.14 |
| 5 | 338 | -5767 | 9212 | -301 | -358 | 411 | 13780 | 9.24 | 3.08 | 9.24 | 3.08 | -57.56 | 2428.9 | 0.13 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 39** NI 16172 NF 16173 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -6591 | 4676 | -138 | -11 | 56 | 16250 | 9.24 | 3.08 | 9.24 | 3.08 | -67.88 | 2864.3 | 0.16 |
| 4 | 0 | -5827 | 4344 | -121 | -9 | 56 | 14320 | 9.24 | 3.08 | 9.24 | 3.08 | -59.82 | 2524.1 | 0.14 |
| 5 | 0 | -5574 | 4232 | -115 | -8 | 55 | 13680 | 9.24 | 3.08 | 9.24 | 3.08 | -57.15 | 2411.3 | 0.13 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -6591 | 4071 | -138 | -11 | 101 | 17677 | 9.24 | 3.08 | 9.24 | 3.08 | -73.85 | 3115.9 | 0.18 |
| 4 | 33 | -5827 | 3792 | -121 | -9 | 95 | 15647 | 9.24 | 3.08 | 9.24 | 3.08 | -65.36 | 2758.0 | 0.15 |
| 5 | 33 | -5574 | 3697 | -115 | -8 | 93 | 14973 | 9.24 | 3.08 | 9.24 | 3.08 | -62.55 | 2639.3 | 0.15 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | -6591 | 3466 | -138 | -11 | 146 | 18907 | 9.24 | 3.08 | 9.24 | 3.08 | -78.98 | 3332.7 | 0.19 |
| 4 | 65 | -5827 | 3239 | -121 | -9 | 135 | 16794 | 9.24 | 3.08 | 9.24 | 3.08 | -70.15 | 2960.2 | 0.17 |
| 5 | 65 | -5574 | 3162 | -115 | -8 | 131 | 16092 | 9.24 | 3.08 | 9.24 | 3.08 | -67.22 | 2836.5 | 0.16 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | -6591 | 2861 | -138 | -11 | 191 | 19940 | 9.24 | 3.08 | 10.78 | 3.08 | -78.78 | 3031.5 | 0.16 |
| 4 | 98 | -5827 | 2687 | -121 | -9 | 174 | 17760 | 9.24 | 3.08 | 10.78 | 3.08 | -70.17 | 2700.1 | 0.14 |
| 5 | 98 | -5574 | 2628 | -115 | -8 | 168 | 17036 | 9.24 | 3.08 | 10.78 | 3.08 | -67.31 | 2590.0 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | -6591 | 2256 | -138 | -11 | 236 | 20775 | 9.24 | 3.08 | 10.78 | 3.08 | -82.08 | 3158.4 | 0.17 |
| 4 | 131 | -5827 | 2134 | -121 | -9 | 214 | 18547 | 9.24 | 3.08 | 10.78 | 3.08 | -73.28 | 2819.7 | 0.15 |
| 5 | 131 | -5574 | 2093 | -115 | -8 | 206 | 17806 | 9.24 | 3.08 | 10.78 | 3.08 | -70.35 | 2707.0 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | -6591 | 1651 | -138 | -11 | 281 | 21413 | 9.24 | 3.08 | 10.78 | 3.08 | -84.60 | 3255.4 | 0.18 |
| 4 | 163 | -5827 | 1582 | -121 | -9 | 253 | 19153 | 9.24 | 3.08 | 10.78 | 3.08 | -75.67 | 2911.8 | 0.16 |
| 5 | 163 | -5574 | 1558 | -115 | -8 | 244 | 18401 | 9.24 | 3.08 | 10.78 | 3.08 | -72.70 | 2797.5 | 0.15 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -6591 | 1046 | -138 | -11 | 326 | 21853 | 9.24 | 3.08 | 12.32 | 3.08 | -82.35 | 2923.8 | 0.15 |
| 4 | 196 | -5827 | 1030 | -121 | -9 | 293 | 19579 | 9.24 | 3.08 | 12.32 | 3.08 | -73.78 | 2619.5 | 0.13 |
| 5 | 196 | -5574 | 1023 | -115 | -8 | 281 | 18822 | 9.24 | 3.08 | 12.32 | 3.08 | -70.93 | 2518.2 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | -6591 | 441 | -138 | -11 | 372 | 22096 | 9.24 | 3.08 | 12.32 | 3.08 | -83.27 | 2956.2 | 0.15 |
| 4 | 228 | -5827 | 477 | -121 | -9 | 332 | 19824 | 9.24 | 3.08 | 12.32 | 3.08 | -74.71 | 2652.3 | 0.14 |
| 5 | 228 | -5574 | 488 | -115 | -8 | 319 | 19068 | 9.24 | 3.08 | 12.32 | 3.08 | -71.86 | 2551.2 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -6591 | -164 | -138 | -11 | 417 | 22141 | 9.24 | 3.08 | 12.32 | 3.08 | -83.44 | 2962.3 | 0.15 |
| 4 | 261 | -5827 | -75 | -121 | -9 | 372 | 19890 | 9.24 | 3.08 | 12.32 | 3.08 | -74.95 | 2661.1 | 0.14 |
| 5 | 261 | -5574 | -46 | -115 | -8 | 356 | 19140 | 9.24 | 3.08 | 12.32 | 3.08 | -72.13 | 2560.8 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | -6591 | -769 | -138 | -11 | 462 | 21989 | 9.24 | 3.08 | 12.32 | 3.08 | -82.87 | 2942.0 | 0.15 |
| 4 | 294 | -5827 | -628 | -121 | -9 | 411 | 19775 | 9.24 | 3.08 | 12.32 | 3.08 | -74.52 | 2645.7 | 0.14 |
| 5 | 294 | -5574 | -581 | -115 | -8 | 394 | 19037 | 9.24 | 3.08 | 12.32 | 3.08 | -71.74 | 2547.0 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | -6591 | -1374 | -138 | -11 | 507 | 21640 | 9.24 | 3.08 | 10.78 | 3.08 | -85.50 | 3289.9 | 0.18 |
| 4 | 326 | -5827 | -1180 | -121 | -9 | 451 | 19480 | 9.24 | 3.08 | 10.78 | 3.08 | -76.96 | 2961.6 | 0.16 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 326 | -5574 | -1116 | -115 | -8 | 432 | 18760 | 9.24 | 3.08 | 10.78 | 3.08 | -74.12 | 2852.1 | 0.15 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 77** NI 16173 NF 16272 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.1600 5.3856 18.5456 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -6317 | -6514 | 351 | 72 | 757 | 21510 | 9.24 | 3.08 | 10.78 | 3.08 | -84.98 | 3270.2 | 0.18 |
| 4 | 0 | -5590 | -5750 | 319 | 66 | 684 | 19370 | 9.24 | 3.08 | 10.78 | 3.08 | -76.53 | 2944.8 | 0.16 |
| 5 | 0 | -5349 | -5496 | 309 | 65 | 660 | 18650 | 9.24 | 3.08 | 10.78 | 3.08 | -73.68 | 2835.4 | 0.15 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -6317 | -7148 | 351 | 72 | 637 | 19174 | 9.24 | 3.08 | 10.78 | 3.08 | -75.76 | 2915.1 | 0.16 |
| 4 | 34 | -5590 | -6329 | 319 | 66 | 575 | 17304 | 9.24 | 3.08 | 10.78 | 3.08 | -68.37 | 2630.8 | 0.14 |
| 5 | 34 | -5349 | -6056 | 309 | 65 | 554 | 16675 | 9.24 | 3.08 | 10.78 | 3.08 | -65.88 | 2535.2 | 0.13 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -6317 | -7781 | 351 | 72 | 517 | 16622 | 9.24 | 3.08 | 9.24 | 3.08 | -69.44 | 2929.9 | 0.17 |
| 4 | 68 | -5590 | -6908 | 319 | 66 | 466 | 15041 | 9.24 | 3.08 | 9.24 | 3.08 | -62.83 | 2651.2 | 0.15 |
| 5 | 68 | -5349 | -6617 | 309 | 65 | 449 | 14509 | 9.24 | 3.08 | 9.24 | 3.08 | -60.61 | 2557.4 | 0.14 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -6317 | -8415 | 351 | 72 | 397 | 13853 | 9.24 | 3.08 | 9.24 | 3.08 | -57.87 | 2441.8 | 0.13 |
| 4 | 103 | -5590 | -7487 | 319 | 66 | 357 | 12580 | 9.24 | 3.08 | 9.24 | 3.08 | -52.55 | 2217.4 | 0.12 |
| 5 | 103 | -5349 | -7177 | 309 | 65 | 344 | 12151 | 9.24 | 3.08 | 9.24 | 3.08 | -50.76 | 2141.8 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 137 | -6317 | -9048 | 351 | 72 | 278 | 10867 | 9.24 | 3.08 | 9.24 | 3.08 | -45.40 | 1915.5 | 0.09 |
| 4 | 137 | -5590 | -8066 | 319 | 66 | 248 | 9920 | 9.24 | 3.08 | 9.24 | 3.08 | -41.44 | 1748.6 | 0.08 |
| 5 | 137 | -5349 | -7738 | 309 | 65 | 238 | 9602 | 9.24 | 3.08 | 9.24 | 3.08 | -40.11 | 1692.4 | 0.07 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -6317 | -9682 | 351 | 72 | 158 | 7664 | 9.24 | 3.08 | 9.24 | 3.08 | -18.57 | 155.5 | 0.00 |
| 4 | 171 | -5590 | -8645 | 319 | 66 | 139 | 7063 | 9.24 | 3.08 | 9.24 | 3.08 | -17.11 | 143.3 | 0.00 |
| 5 | 171 | -5349 | -8298 | 309 | 65 | 133 | 6861 | 9.24 | 3.08 | 9.24 | 3.08 | -16.62 | 139.2 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 205 | -6317 | -10316 | 351 | 72 | 38 | 4245 | 9.24 | 3.08 | 9.24 | 3.08 | -10.28 | 86.2 | 0.00 |
| 4 | 205 | -5590 | -9224 | 319 | 66 | 30 | 4008 | 9.24 | 3.08 | 9.24 | 3.08 | -9.71 | 81.3 | 0.00 |
| 5 | 205 | -5349 | -8858 | 309 | 65 | 27 | 3928 | 9.24 | 3.08 | 9.24 | 3.08 | -9.52 | 79.7 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 239 | -6317 | -10949 | 351 | 72 | -82 | 609 | 3.08 | 9.24 | 9.24 | 3.08 | -1.47 | 12.4 | 0.00 |
| 4 | 239 | -5590 | -9803 | 319 | 66 | -79 | 756 | 3.08 | 9.24 | 9.24 | 3.08 | -1.83 | 15.3 | 0.00 |
| 5 | 239 | -5349 | -9419 | 308 | 65 | -78 | 804 | 3.08 | 9.24 | 9.24 | 3.08 | -1.95 | 16.3 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 273 | -6317 | -11583 | 351 | 72 | -202 | -3244 | 3.08 | 9.24 | 4.62 | 9.24 | -7.76 | 65.5 | 0.00 |
| 4 | 273 | -5590 | -10382 | 319 | 66 | -188 | -2695 | 3.08 | 9.24 | 4.62 | 9.24 | -6.45 | 54.4 | 0.00 |
| 5 | 273 | -5349 | -9979 | 309 | 65 | -184 | -2512 | 3.08 | 9.24 | 4.62 | 9.24 | -6.01 | 50.7 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 308 | -6317 | -12216 | 351 | 72 | -322 | -7314 | 3.08 | 9.24 | 4.62 | 9.24 | -17.50 | 147.7 | 0.00 |
| 4 | 308 | -5590 | -10961 | 319 | 66 | -297 | -6344 | 3.08 | 9.24 | 4.62 | 9.24 | -15.18 | 128.1 | 0.00 |
| 5 | 308 | -5349 | -10540 | 309 | 65 | -289 | -6019 | 3.08 | 9.24 | 4.62 | 9.24 | -14.40 | 121.5 | 0.00 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 342 | -6317 | -12850 | 351 | 72 | -442 | -11600 | 3.08 | 9.24 | 4.62 | 9.24 | -46.90 | 2037.0 | 0.10 |
| 4 | 342 | -5590 | -11540 | 319 | 66 | -407 | -10190 | 3.08 | 9.24 | 4.62 | 9.24 | -41.20 | 1789.4 | 0.08 |
| 5 | 342 | -5349 | -11100 | 309 | 65 | -395 | -9718 | 3.08 | 9.24 | 4.62 | 9.24 | -39.29 | 1706.5 | 0.08 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 40** NI 16167 NF 16168 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6440 5.3856 19.0296 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 0 | -8221 | 17660 | -477 | -478 | -957 | -28131 | 3.08 | 9.24 | 7.70 | 15.39 | -89.95 | 3004.1 | 0.15 |
| 4 | 0 | -7364 | 16100 | -428 | -498 | -858 | -26095 | 3.08 | 9.24 | 7.70 | 15.39 | -83.44 | 2786.7 | 0.14 |
| 5 | 0 | -7079 | 15580 | -412 | -505 | -825 | -25403 | 3.08 | 9.24 | 7.70 | 15.39 | -81.23 | 2712.8 | 0.13 |

apost= -- aant= 6.16 ainf= 4.62 asup= 12.32 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -8221 | 17016 | -477 | -478 | -795 | -24911 | 3.08 | 9.24 | 6.16 | 12.32 | -88.29 | 3306.1 | 0.17 |
| 4 | 34 | -7364 | 15511 | -428 | -498 | -713 | -23159 | 3.08 | 9.24 | 6.16 | 12.32 | -82.08 | 3073.6 | 0.16 |
| 5 | 34 | -7079 | 15009 | -412 | -505 | -686 | -22562 | 3.08 | 9.24 | 6.16 | 12.32 | -79.96 | 2994.3 | 0.16 |

apost= -- aant= 6.16 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -8221 | 16372 | -477 | -478 | -634 | -19260 | 3.08 | 9.24 | 4.62 | 9.24 | -77.87 | 3382.1 | 0.20 |
| 4 | 68 | -7364 | 14922 | -428 | -498 | -568 | -18008 | 3.08 | 9.24 | 4.62 | 9.24 | -72.81 | 3162.2 | 0.18 |
| 5 | 68 | -7079 | 14438 | -412 | -505 | -547 | -17577 | 3.08 | 9.24 | 4.62 | 9.24 | -71.06 | 3086.6 | 0.18 |

apost= -- aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 102 | -8221 | 15728 | -477 | -478 | -473 | -13827 | 3.08 | 9.24 | 3.08 | 9.24 | -57.76 | 2437.2 | 0.13 |
| 4 | 102 | -7364 | 14333 | -428 | -498 | -424 | -13056 | 3.08 | 9.24 | 3.08 | 9.24 | -54.54 | 2301.4 | 0.12 |
| 5 | 102 | -7079 | 13867 | -412 | -505 | -407 | -12786 | 3.08 | 9.24 | 3.08 | 9.24 | -53.41 | 2253.8 | 0.12 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 135 | -8221 | 15084 | -477 | -478 | -311 | -8612 | 3.08 | 9.24 | 3.08 | 9.24 | -35.98 | 1518.0 | 0.06 |
| 4 | 135 | -7364 | 13744 | -428 | -498 | -279 | -8304 | 3.08 | 9.24 | 3.08 | 9.24 | -34.69 | 1463.7 | 0.06 |
| 5 | 135 | -7079 | 13296 | -412 | -505 | -268 | -8188 | 3.08 | 9.24 | 3.08 | 9.24 | -19.83 | 166.2 | 0.00 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 169 | -8221 | 14440 | -477 | -478 | -150 | -3615 | 3.08 | 9.24 | 3.08 | 9.24 | -8.76 | 73.4 | 0.00 |
| 4 | 169 | -7364 | 13155 | -428 | -498 | -134 | -3751 | 3.08 | 9.24 | 3.08 | 9.24 | -9.09 | 76.1 | 0.00 |
| 5 | 169 | -7079 | 12726 | -412 | -505 | -129 | -3784 | 3.08 | 9.24 | 3.08 | 9.24 | -9.17 | 76.8 | 0.00 |

apost= -- aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 203 | -8221 | 13796 | -477 | -478 | 11 | 1164 | 3.08 | 9.24 | 9.24 | 3.08 | -2.82 | 23.6 | 0.00 |
| 4 | 203 | -7364 | 12566 | -428 | -498 | 11 | 602 | 3.08 | 9.24 | 9.24 | 3.08 | -1.46 | 12.2 | 0.00 |
| 5 | 203 | -7079 | 12155 | -412 | -505 | 11 | 428 | 3.08 | 9.24 | 9.24 | 3.08 | -1.04 | 8.7 | 0.00 |

apost= -- aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 237 | -8221 | 13152 | -477 | -478 | 173 | 5725 | 9.24 | 3.08 | 9.24 | 3.08 | -13.87 | 116.2 | 0.00 |
| 4 | 237 | -7364 | 11977 | -428 | -498 | 156 | 4756 | 9.24 | 3.08 | 9.24 | 3.08 | -11.52 | 96.5 | 0.00 |
| 5 | 237 | -7079 | 11584 | -412 | -505 | 150 | 4446 | 9.24 | 3.08 | 9.24 | 3.08 | -10.77 | 90.2 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 271 | -8221 | 12508 | -477 | -478 | 334 | 10068 | 9.24 | 3.08 | 9.24 | 3.08 | -42.06 | 1774.6 | 0.08 |
| 4 | 271 | -7364 | 11388 | -428 | -498 | 300 | 8710 | 9.24 | 3.08 | 9.24 | 3.08 | -36.38 | 1535.3 | 0.06 |
| 5 | 271 | -7079 | 11013 | -412 | -505 | 289 | 8271 | 9.24 | 3.08 | 9.24 | 3.08 | -34.55 | 1457.8 | 0.05 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | -8221 | 11864 | -477 | -478 | 495 | 14193 | 9.24 | 3.08 | 9.24 | 3.08 | -59.29 | 2501.7 | 0.14 |
| 4 | 305 | -7364 | 10799 | -428 | -498 | 445 | 12465 | 9.24 | 3.08 | 9.24 | 3.08 | -52.07 | 2197.1 | 0.11 |
| 5 | 305 | -7079 | 10442 | -412 | -505 | 428 | 11902 | 9.24 | 3.08 | 9.24 | 3.08 | -49.72 | 2097.9 | 0.11 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | -8221 | 11220 | -477 | -478 | 657 | 18100 | 9.24 | 9.24 | 9.24 | 3.08 | -75.61 | 3190.4 | 0.18 |
| 4 | 338 | -7364 | 10210 | -428 | -498 | 590 | 16020 | 9.24 | 9.24 | 9.24 | 3.08 | -66.92 | 2823.8 | 0.16 |
| 5 | 338 | -7079 | 9871 | -412 | -505 | 568 | 15340 | 9.24 | 9.24 | 9.24 | 3.08 | -64.08 | 2703.9 | 0.15 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 41** NI 16168 NF 16169 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6440 5.3856 19.0296 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -8317 | 4501 | -159 | -141 | -8 | 18320 | 9.24 | 9.24 | 9.24 | 3.08 | -76.53 | 3229.2 | 0.19 |
| 4 | 0 | -7438 | 4212 | -147 | -142 | -9 | 16230 | 9.24 | 9.24 | 9.24 | 3.08 | -67.80 | 2860.8 | 0.16 |
| 5 | 0 | -7146 | 4114 | -142 | -142 | -9 | 15540 | 9.24 | 9.24 | 9.24 | 3.08 | -64.92 | 2739.2 | 0.15 |

apost= 6.16 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -8317 | 3880 | -159 | -141 | 44 | 19688 | 9.24 | 3.08 | 10.78 | 3.08 | -77.78 | 2993.1 | 0.16 |
| 4 | 33 | -7438 | 3644 | -147 | -142 | 39 | 17511 | 9.24 | 3.08 | 10.78 | 3.08 | -69.18 | 2662.2 | 0.14 |
| 5 | 33 | -7146 | 3563 | -142 | -142 | 37 | 16792 | 9.24 | 3.08 | 10.78 | 3.08 | -66.34 | 2553.0 | 0.13 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | -8317 | 3259 | -159 | -141 | 96 | 20853 | 9.24 | 3.08 | 10.78 | 3.08 | -82.39 | 3170.2 | 0.17 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 65 | -7438 | 3076 | -147 | -142 | 87 | 18607 | 9.24 | 3.08 | 10.78 | 3.08 | -73.51 | 2828.8 | 0.15 |
| 5 | 65 | -7146 | 3013 | -142 | -142 | 84 | 17865 | 9.24 | 3.08 | 10.78 | 3.08 | -70.58 | 2716.0 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | -8317 | 2638 | -159 | -141 | 148 | 21815 | 9.24 | 3.08 | 10.78 | 3.08 | -86.19 | 3316.6 | 0.18 |
| 4 | 98 | -7438 | 2507 | -147 | -142 | 134 | 19517 | 9.24 | 3.08 | 10.78 | 3.08 | -77.11 | 2967.2 | 0.16 |
| 5 | 98 | -7146 | 2462 | -142 | -142 | 130 | 18758 | 9.24 | 3.08 | 10.78 | 3.08 | -74.11 | 2851.8 | 0.15 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | -8317 | 2017 | -159 | -141 | 199 | 22575 | 9.24 | 3.08 | 12.32 | 3.08 | -85.07 | 3020.3 | 0.16 |
| 4 | 131 | -7438 | 1939 | -147 | -142 | 182 | 20242 | 9.24 | 3.08 | 12.32 | 3.08 | -76.28 | 2708.3 | 0.14 |
| 5 | 131 | -7146 | 1912 | -142 | -142 | 176 | 19472 | 9.24 | 3.08 | 12.32 | 3.08 | -73.38 | 2605.1 | 0.13 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | -8317 | 1396 | -159 | -141 | 251 | 23132 | 9.24 | 3.08 | 12.32 | 3.08 | -87.17 | 3094.9 | 0.16 |
| 4 | 163 | -7438 | 1371 | -147 | -142 | 230 | 20782 | 9.24 | 3.08 | 12.32 | 3.08 | -78.32 | 2780.5 | 0.14 |
| 5 | 163 | -7146 | 1361 | -142 | -142 | 223 | 20006 | 9.24 | 3.08 | 12.32 | 3.08 | -75.39 | 2676.6 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -8317 | 776 | -159 | -141 | 303 | 23487 | 9.24 | 3.08 | 12.32 | 3.08 | -88.51 | 3142.3 | 0.16 |
| 4 | 196 | -7438 | 803 | -147 | -142 | 278 | 21136 | 9.24 | 3.08 | 12.32 | 3.08 | -79.65 | 2827.9 | 0.15 |
| 5 | 196 | -7146 | 810 | -142 | -142 | 269 | 20360 | 9.24 | 3.08 | 12.32 | 3.08 | -76.73 | 2724.0 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | -8317 | 155 | -159 | -141 | 355 | 23639 | 9.24 | 3.08 | 12.32 | 3.08 | -89.08 | 3162.7 | 0.17 |
| 4 | 228 | -7438 | 235 | -146 | -142 | 326 | 21305 | 9.24 | 3.08 | 12.32 | 3.08 | -80.29 | 2850.5 | 0.15 |
| 5 | 228 | -7146 | 260 | -142 | -142 | 315 | 20534 | 9.24 | 3.08 | 12.32 | 3.08 | -77.38 | 2747.3 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -8317 | -466 | -159 | -141 | 407 | 23589 | 9.24 | 3.08 | 12.32 | 3.08 | -88.89 | 3156.0 | 0.17 |
| 4 | 261 | -7438 | -334 | -147 | -142 | 373 | 21289 | 9.24 | 3.08 | 12.32 | 3.08 | -80.23 | 2848.3 | 0.15 |
| 5 | 261 | -7146 | -291 | -142 | -142 | 362 | 20529 | 9.24 | 3.08 | 12.32 | 3.08 | -77.36 | 2746.6 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | -8317 | -1087 | -159 | -141 | 459 | 23336 | 9.24 | 3.08 | 12.32 | 3.08 | -87.94 | 3122.1 | 0.16 |
| 4 | 294 | -7438 | -902 | -147 | -142 | 421 | 21087 | 9.24 | 3.08 | 12.32 | 3.08 | -79.47 | 2821.3 | 0.15 |
| 5 | 294 | -7146 | -841 | -142 | -142 | 408 | 20344 | 9.24 | 3.08 | 12.32 | 3.08 | -76.67 | 2721.9 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | -8317 | -1708 | -159 | -141 | 510 | 22880 | 9.24 | 3.08 | 12.32 | 3.08 | -86.22 | 3061.1 | 0.16 |
| 4 | 326 | -7438 | -1470 | -147 | -142 | 469 | 20700 | 9.24 | 3.08 | 12.32 | 3.08 | -78.01 | 2769.5 | 0.14 |
| 5 | 326 | -7146 | -1392 | -142 | -142 | 455 | 19980 | 9.24 | 3.08 | 12.32 | 3.08 | -75.29 | 2673.2 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 42** NI 16169 NF 16273 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 6.6440 5.3856 19.0296 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -8402 | -9329 | 185 | 188 | 440 | 23040 | 9.24 | 3.08 | 12.32 | 3.08 | -86.83 | 3082.6 | 0.16 |
| 4 | 0 | -7504 | -8260 | 177 | 186 | 413 | 20840 | 9.24 | 3.08 | 12.32 | 3.08 | -78.54 | 2788.2 | 0.14 |
| 5 | 0 | -7207 | -7906 | 174 | 185 | 404 | 20100 | 9.24 | 3.08 | 12.32 | 3.08 | -75.75 | 2689.2 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -8402 | -9979 | 185 | 188 | 376 | 19740 | 9.24 | 3.08 | 10.78 | 3.08 | -77.99 | 3001.1 | 0.16 |
| 4 | 34 | -7504 | -8855 | 177 | 186 | 352 | 17914 | 9.24 | 3.08 | 10.78 | 3.08 | -70.78 | 2723.5 | 0.15 |
| 5 | 34 | -7207 | -8483 | 174 | 185 | 344 | 17299 | 9.24 | 3.08 | 10.78 | 3.08 | -68.34 | 2629.9 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -8402 | -10629 | 185 | 188 | 313 | 16217 | 9.24 | 3.08 | 9.24 | 3.08 | -67.75 | 2858.5 | 0.16 |
| 4 | 68 | -7504 | -9450 | 177 | 186 | 292 | 14784 | 9.24 | 3.08 | 9.24 | 3.08 | -61.76 | 2605.9 | 0.14 |
| 5 | 68 | -7207 | -9061 | 174 | 185 | 284 | 14300 | 9.24 | 3.08 | 9.24 | 3.08 | -59.74 | 2520.6 | 0.14 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -8402 | -11279 | 185 | 188 | 250 | 12472 | 9.24 | 3.08 | 9.24 | 3.08 | -52.10 | 2198.4 | 0.11 |
| 4 | 103 | -7504 | -10045 | 177 | 186 | 231 | 11451 | 9.24 | 3.08 | 9.24 | 3.08 | -47.84 | 2018.4 | 0.10 |
| 5 | 103 | -7207 | -9638 | 174 | 185 | 225 | 11104 | 9.24 | 3.08 | 9.24 | 3.08 | -46.39 | 1957.2 | 0.10 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 137 | -8402 | -11929 | 185 | 188 | 186 | 8505 | 9.24 | 3.08 | 9.24 | 3.08 | -35.53 | 1499.1 | 0.06 |
| 4 | 137 | -7504 | -10640 | 177 | 186 | 170 | 7914 | 9.24 | 3.08 | 9.24 | 3.08 | -19.17 | 160.6 | 0.00 |
| 5 | 137 | -7207 | -10216 | 174 | 185 | 165 | 7711 | 9.24 | 3.08 | 9.24 | 3.08 | -18.68 | 156.5 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -8402 | -12580 | 185 | 188 | 123 | 4315 | 9.24 | 3.08 | 9.24 | 3.08 | -10.45 | 87.6 | 0.00 |
| 4 | 171 | -7504 | -11235 | 177 | 186 | 110 | 4174 | 9.24 | 3.08 | 9.24 | 3.08 | -10.11 | 84.7 | 0.00 |
| 5 | 171 | -7207 | -10793 | 174 | 185 | 105 | 4120 | 9.24 | 3.08 | 9.24 | 3.08 | -9.98 | 83.6 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 205 | -8402 | -13230 | 185 | 188 | 59 | -97 | 9.24 | 3.08 | 9.24 | 9.24 | -0.22 | 1.9 | 0.00 |
| 4 | 205 | -7504 | -11830 | 177 | 186 | 49 | 230 | 9.24 | 3.08 | 9.24 | 9.24 | -0.53 | 4.6 | 0.00 |
| 5 | 205 | -7207 | -11370 | 174 | 185 | 46 | 333 | 9.24 | 3.08 | 9.24 | 9.24 | -0.77 | 6.6 | 0.00 |

apost= 6.16 aant= --  ainf= 6.16 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 239 | -8402 | -13880 | 185 | 188 | -4 | -4732 | 9.24 | 3.08 | 3.08 | 9.24 | -11.46 | 96.0 | 0.00 |
| 4 | 239 | -7504 | -12425 | 177 | 186 | -11 | -3917 | 9.24 | 3.08 | 3.08 | 9.24 | -9.49 | 79.5 | 0.00 |
| 5 | 239 | -7207 | -11948 | 174 | 185 | -14 | -3652 | 9.24 | 3.08 | 3.08 | 9.24 | -8.85 | 74.1 | 0.00 |

apost= 6.16 aant= --  ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 273 | -8402 | -14530 | 185 | 188 | -67 | -9589 | 3.08 | 9.24 | 4.62 | 9.24 | -38.77 | 1683.8 | 0.07 |
| 4 | 273 | -7504 | -13020 | 177 | 186 | -72 | -8268 | 3.08 | 9.24 | 4.62 | 9.24 | -19.78 | 166.9 | 0.00 |
| 5 | 273 | -7207 | -12525 | 174 | 185 | -74 | -7834 | 3.08 | 9.24 | 4.62 | 9.24 | -18.74 | 158.2 | 0.00 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 308 | -8402 | -15180 | 185 | 188 | -131 | -14668 | 3.08 | 9.24 | 4.62 | 9.24 | -59.30 | 2575.7 | 0.14 |
| 4 | 308 | -7504 | -13615 | 177 | 186 | -133 | -12822 | 3.08 | 9.24 | 4.62 | 9.24 | -51.84 | 2251.6 | 0.12 |
| 5 | 308 | -7207 | -13103 | 174 | 185 | -133 | -12213 | 3.08 | 9.24 | 4.62 | 9.24 | -49.38 | 2144.7 | 0.11 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 342 | -8402 | -15830 | 185 | 188 | -194 | -19970 | 3.08 | 9.24 | 6.16 | 10.78 | -74.10 | 3012.8 | 0.16 |
| 4 | 342 | -7504 | -14210 | 177 | 186 | -193 | -17580 | 3.08 | 9.24 | 6.16 | 10.78 | -65.23 | 2652.3 | 0.14 |
| 5 | 342 | -7207 | -13680 | 174 | 185 | -193 | -16790 | 3.08 | 9.24 | 6.16 | 10.78 | -62.30 | 2533.1 | 0.13 |

apost= --  aant= 6.16 ainf= 3.08 asup= 7.70  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 43**  NI 16163  NF 16164  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  7.1280  5.3856  19.5136  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -5104 | 19340 | -255 | -233 | -529 | -31809 | 3.08 | 9.24 | 9.24 | 16.93 | -96.00 | 3089.9 | 0.15 |
| 4 | 0 | -4471 | 17870 | -219 | -370 | -457 | -29910 | 3.08 | 9.24 | 9.24 | 16.93 | -90.27 | 2905.3 | 0.14 |
| 5 | 0 | -4265 | 17380 | -207 | -410 | -434 | -29253 | 3.08 | 9.24 | 9.24 | 16.93 | -88.29 | 2841.6 | 0.13 |

apost= --  aant= 6.16 ainf= 6.16 asup= 13.85  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -5104 | 18679 | -255 | -233 | -443 | -28277 | 3.08 | 9.24 | 7.70 | 15.39 | -90.42 | 3019.7 | 0.15 |
| 4 | 34 | -4471 | 17264 | -219 | -370 | -383 | -26644 | 3.08 | 9.24 | 7.70 | 15.39 | -85.20 | 2845.3 | 0.14 |
| 5 | 34 | -4265 | 16792 | -207 | -410 | -364 | -26078 | 3.08 | 9.24 | 7.70 | 15.39 | -83.39 | 2784.8 | 0.13 |

apost= --  aant= 6.16 ainf= 4.62 asup= 12.32  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -5104 | 18018 | -255 | -233 | -357 | -22068 | 3.08 | 9.24 | 6.16 | 12.32 | -78.21 | 2928.7 | 0.15 |
| 4 | 68 | -4471 | 16658 | -219 | -370 | -309 | -20904 | 3.08 | 9.24 | 6.16 | 12.32 | -74.09 | 2774.2 | 0.14 |
| 5 | 68 | -4265 | 16204 | -207 | -410 | -294 | -20495 | 3.08 | 9.24 | 6.16 | 12.32 | -72.64 | 2720.0 | 0.14 |

apost= --  aant= 6.16 ainf= 3.08 asup= 9.24  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 102 | -5104 | 17357 | -255 | -233 | -271 | -16082 | 3.08 | 9.24 | 3.08 | 9.24 | -67.18 | 2834.7 | 0.16 |
| 4 | 102 | -4471 | 16052 | -219 | -370 | -235 | -15368 | 3.08 | 9.24 | 3.08 | 9.24 | -64.20 | 2708.9 | 0.15 |
| 5 | 102 | -4265 | 15616 | -207 | -410 | -224 | -15111 | 3.08 | 9.24 | 3.08 | 9.24 | -63.12 | 2663.5 | 0.15 |

apost= --  aant= 6.16 ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 135 | -5104 | 16696 | -255 | -233 | -185 | -10320 | 3.08 | 9.24 | 3.08 | 9.24 | -43.11 | 1819.0 | 0.08 |
| 4 | 135 | -4471 | 15446 | -219 | -370 | -161 | -10038 | 3.08 | 9.24 | 3.08 | 9.24 | -41.93 | 1769.3 | 0.08 |
| 5 | 135 | -4265 | 15028 | -207 | -410 | -154 | -9926 | 3.08 | 9.24 | 3.08 | 9.24 | -41.46 | 1749.6 | 0.08 |

apost= --  aant= 6.16 ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 169 | -5104 | 16035 | -255 | -233 | -99 | -4781 | 3.08 | 9.24 | 3.08 | 9.24 | -11.58 | 97.0 | 0.00 |
| 4 | 169 | -4471 | 14840 | -219 | -370 | -87 | -4912 | 3.08 | 9.24 | 3.08 | 9.24 | -11.90 | 99.7 | 0.00 |
| 5 | 169 | -4265 | 14440 | -207 | -410 | -83 | -4939 | 3.08 | 9.24 | 3.08 | 9.24 | -11.96 | 100.2 | 0.00 |

apost= --  aant= 6.16 ainf= --  asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 203 | -5104 | 15374 | -255 | -233 | -13 | 534 | 3.08 | 9.24 | 9.24 | 9.24 | -1.23 | 10.6 | 0.00 |
| 4 | 203 | -4471 | 14234 | -219 | -370 | -13 | 8 | 3.08 | 9.24 | 9.24 | 9.24 | -0.02 | 0.2 | 0.00 |
| 5 | 203 | -4265 | 13852 | -207 | -410 | -13 | -152 | 3.08 | 9.24 | 9.24 | 9.24 | -0.35 | 3.0 | 0.00 |

apost= --  aant= 6.16 ainf= 6.16 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 237 | -5104 | 14713 | -255 | -233 | 73 | 5626 | 9.24 | 3.08 | 9.24 | 3.08 | -13.63 | 114.2 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 237 | -4471 | 13628 | -219 | -370 | 61 | 4724 | 9.24 | 3.08 | 9.24 | 3.08 | -11.44 | 95.9 | 0.00 |
| 5 | 237 | -4265 | 13264 | -207 | -410 | 57 | 4437 | 9.24 | 3.08 | 9.24 | 3.08 | -10.75 | 90.0 | 0.00 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 271 | -5104 | 14052 | -255 | -233 | 160 | 10494 | 9.24 | 3.08 | 9.24 | 3.08 | -43.84 | 1849.8 | 0.09 |
| 4 | 271 | -4471 | 13022 | -219 | -370 | 135 | 9234 | 9.24 | 3.08 | 9.24 | 3.08 | -38.58 | 1627.7 | 0.07 |
| 5 | 271 | -4265 | 12676 | -207 | -410 | 127 | 8827 | 9.24 | 3.08 | 9.24 | 3.08 | -36.87 | 1555.9 | 0.06 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 305 | -5104 | 13391 | -255 | -233 | 246 | 15139 | 9.24 | 3.08 | 9.24 | 3.08 | -63.24 | 2668.5 | 0.15 |
| 4 | 305 | -4471 | 12416 | -219 | -370 | 209 | 13540 | 9.24 | 3.08 | 9.24 | 3.08 | -56.56 | 2386.6 | 0.13 |
| 5 | 305 | -4265 | 12088 | -207 | -410 | 197 | 13018 | 9.24 | 3.08 | 9.24 | 3.08 | -54.38 | 2294.6 | 0.12 |

apost= 6.16 aant= -- ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 338 | -5104 | 12730 | -255 | -233 | 332 | 19560 | 9.24 | 3.08 | 10.78 | 3.08 | -77.28 | 2973.7 | 0.16 |
| 4 | 338 | -4471 | 11810 | -219 | -370 | 283 | 17640 | 9.24 | 3.08 | 10.78 | 3.08 | -69.69 | 2681.8 | 0.14 |
| 5 | 338 | -4265 | 11500 | -207 | -410 | 267 | 17010 | 9.24 | 3.08 | 10.78 | 3.08 | -67.20 | 2586.0 | 0.14 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 44** NI 16164 NF 16165 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 9.7680 5.3856 22.1536 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -5375 | 5853 | 100 | -217 | 348 | 19270 | 9.24 | 3.08 | 10.78 | 3.08 | -76.13 | 2929.6 | 0.16 |
| 4 | 0 | -4742 | 5520 | 91 | -212 | 321 | 17370 | 9.24 | 3.08 | 10.78 | 3.08 | -68.63 | 2640.8 | 0.14 |
| 5 | 0 | -4535 | 5406 | 88 | -211 | 313 | 16750 | 9.24 | 3.08 | 10.78 | 3.08 | -66.18 | 2546.5 | 0.13 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -5375 | 5130 | 100 | -217 | 315 | 21061 | 9.24 | 3.08 | 10.78 | 3.08 | -83.21 | 3202.0 | 0.18 |
| 4 | 33 | -4742 | 4850 | 91 | -212 | 292 | 19062 | 9.24 | 3.08 | 10.78 | 3.08 | -75.31 | 2898.0 | 0.16 |
| 5 | 33 | -4535 | 4753 | 88 | -211 | 284 | 18407 | 9.24 | 3.08 | 10.78 | 3.08 | -72.72 | 2798.4 | 0.15 |

apost= 6.16 aant= -- ainf= 7.70 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | -5375 | 4407 | 100 | -217 | 283 | 22617 | 9.24 | 3.08 | 12.32 | 3.08 | -85.23 | 3025.9 | 0.16 |
| 4 | 65 | -4742 | 4180 | 91 | -212 | 262 | 20535 | 9.24 | 3.08 | 12.32 | 3.08 | -77.39 | 2747.4 | 0.14 |
| 5 | 65 | -4535 | 4101 | 88 | -211 | 255 | 19851 | 9.24 | 3.08 | 12.32 | 3.08 | -74.81 | 2655.9 | 0.14 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | -5375 | 3685 | 100 | -217 | 250 | 23936 | 9.24 | 3.08 | 12.32 | 3.08 | -90.20 | 3202.5 | 0.17 |
| 4 | 98 | -4742 | 3510 | 91 | -212 | 232 | 21790 | 9.24 | 3.08 | 12.32 | 3.08 | -82.11 | 2915.3 | 0.15 |
| 5 | 98 | -4535 | 3449 | 88 | -211 | 226 | 21082 | 9.24 | 3.08 | 12.32 | 3.08 | -79.45 | 2820.6 | 0.15 |

apost= 6.16 aant= -- ainf= 9.24 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | -5375 | 2962 | 100 | -217 | 217 | 25020 | 9.24 | 3.08 | 13.85 | 3.08 | -90.51 | 2991.4 | 0.15 |
| 4 | 131 | -4742 | 2840 | 91 | -212 | 202 | 22826 | 9.24 | 3.08 | 13.85 | 3.08 | -82.57 | 2729.0 | 0.14 |
| 5 | 131 | -4535 | 2796 | 88 | -211 | 197 | 22101 | 9.24 | 3.08 | 13.85 | 3.08 | -79.95 | 2642.3 | 0.13 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | -5375 | 2239 | 100 | -217 | 184 | 25868 | 9.24 | 3.08 | 13.85 | 3.08 | -93.58 | 3092.7 | 0.16 |
| 4 | 163 | -4742 | 2169 | 91 | -212 | 173 | 23643 | 9.24 | 3.08 | 13.85 | 3.08 | -85.53 | 2826.7 | 0.14 |
| 5 | 163 | -4535 | 2143 | 88 | -211 | 169 | 22906 | 9.24 | 3.08 | 13.85 | 3.08 | -82.87 | 2738.6 | 0.14 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -5375 | 1516 | 100 | -217 | 152 | 26480 | 9.24 | 3.08 | 13.85 | 3.08 | -95.79 | 3165.9 | 0.16 |
| 4 | 196 | -4742 | 1499 | 91 | -212 | 143 | 24242 | 9.24 | 3.08 | 13.85 | 3.08 | -87.70 | 2898.3 | 0.15 |
| 5 | 196 | -4535 | 1491 | 88 | -211 | 140 | 23499 | 9.24 | 3.08 | 13.85 | 3.08 | -85.01 | 2809.5 | 0.14 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | -5375 | 793 | 100 | -217 | 119 | 26856 | 9.24 | 3.08 | 13.85 | 3.08 | -97.16 | 3210.9 | 0.16 |
| 4 | 228 | -4742 | 829 | 91 | -212 | 113 | 24622 | 9.24 | 3.08 | 13.85 | 3.08 | -89.07 | 2943.7 | 0.15 |
| 5 | 228 | -4535 | 839 | 88 | -211 | 111 | 23878 | 9.24 | 3.08 | 13.85 | 3.08 | -86.38 | 2854.9 | 0.14 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -5375 | 71 | 100 | -217 | 86 | 26997 | 9.24 | 3.08 | 13.85 | 3.08 | -97.66 | 3227.7 | 0.16 |
| 4 | 261 | -4742 | 159 | 91 | -212 | 84 | 24783 | 9.24 | 3.08 | 13.85 | 3.08 | -89.66 | 2963.0 | 0.15 |
| 5 | 261 | -4535 | 186 | 88 | -211 | 82 | 24045 | 9.24 | 3.08 | 13.85 | 3.08 | -86.99 | 2874.8 | 0.14 |

apost= 6.16 aant= -- ainf= 10.78 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | -5375 | -652 | 100 | -217 | 54 | 26901 | 9.24 | 3.08 | 13.85 | 3.08 | -97.32 | 3216.3 | 0.16 |
| 4 | 294 | -4742 | -511 | 91 | -212 | 54 | 24726 | 9.24 | 3.08 | 13.85 | 3.08 | -89.45 | 2956.2 | 0.15 |
| 5 | 294 | -4535 | -467 | 88 | -211 | 53 | 23999 | 9.24 | 3.08 | 13.85 | 3.08 | -86.82 | 2869.3 | 0.14 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | -5375 | -1375 | 100 | -217 | 21 | 26570 | 9.24 | 3.08 | 13.85 | 3.08 | -96.12 | 3176.7 | 0.16 |
| 4 | 326 | -4742 | -1181 | 91 | -212 | 24 | 24450 | 9.24 | 3.08 | 13.85 | 3.08 | -88.45 | 2923.2 | 0.15 |
| 5 | 326 | -4535 | -1119 | 88 | -211 | 24 | 23740 | 9.24 | 3.08 | 13.85 | 3.08 | -85.88 | 2838.3 | 0.14 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 45**  NI 16165  NF 16274  SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 9.7680 5.3856 22.1536 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -5596 | -7701 | 276 | 173 | 493 | 26550 | 9.24 | 3.08 | 13.85 | 3.08 | -96.05 | 3174.3 | 0.16 |
| 4 | 0 | -4970 | -6971 | 273 | 187 | 488 | 24420 | 9.24 | 3.08 | 13.85 | 3.08 | -88.34 | 2919.6 | 0.15 |
| 5 | 0 | -4765 | -6727 | 271 | 192 | 485 | 23710 | 9.24 | 3.08 | 13.85 | 3.08 | -85.77 | 2834.7 | 0.14 |

apost= 6.16 aant= --  ainf= 10.78 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -5596 | -8459 | 276 | 173 | 399 | 23787 | 9.24 | 3.08 | 12.32 | 3.08 | -89.64 | 3182.5 | 0.17 |
| 4 | 34 | -4970 | -7673 | 273 | 187 | 395 | 21917 | 9.24 | 3.08 | 12.32 | 3.08 | -82.59 | 2932.3 | 0.15 |
| 5 | 34 | -4765 | -7410 | 271 | 192 | 392 | 21294 | 9.24 | 3.08 | 12.32 | 3.08 | -80.25 | 2848.9 | 0.15 |

apost= 6.16 aant= --  ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -5596 | -9217 | 276 | 173 | 304 | 20765 | 9.24 | 3.08 | 10.78 | 3.08 | -82.04 | 3157.0 | 0.17 |
| 4 | 68 | -4970 | -8375 | 273 | 187 | 302 | 19174 | 9.24 | 3.08 | 10.78 | 3.08 | -75.76 | 2915.1 | 0.16 |
| 5 | 68 | -4765 | -8094 | 271 | 192 | 300 | 18644 | 9.24 | 3.08 | 10.78 | 3.08 | -73.66 | 2834.4 | 0.15 |

apost= 6.16 aant= --  ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -5596 | -9975 | 276 | 173 | 210 | 17485 | 9.24 | 3.08 | 9.24 | 3.08 | -73.04 | 3081.9 | 0.18 |
| 4 | 103 | -4970 | -9077 | 273 | 187 | 208 | 16191 | 9.24 | 3.08 | 9.24 | 3.08 | -67.64 | 2854.0 | 0.16 |
| 5 | 103 | -4765 | -8777 | 271 | 192 | 207 | 15760 | 9.24 | 3.08 | 9.24 | 3.08 | -65.84 | 2778.0 | 0.16 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 137 | -5596 | -10733 | 276 | 173 | 116 | 13945 | 9.24 | 3.08 | 9.24 | 3.08 | -58.25 | 2458.0 | 0.13 |
| 4 | 137 | -4970 | -9779 | 273 | 187 | 115 | 12968 | 9.24 | 3.08 | 9.24 | 3.08 | -54.17 | 2285.9 | 0.12 |
| 5 | 137 | -4765 | -9460 | 271 | 192 | 115 | 12643 | 9.24 | 3.08 | 9.24 | 3.08 | -52.81 | 2228.5 | 0.12 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -5596 | -11491 | 276 | 173 | 22 | 10147 | 9.24 | 3.08 | 9.24 | 3.08 | -42.39 | 1788.5 | 0.08 |
| 4 | 171 | -4970 | -10481 | 273 | 187 | 22 | 9505 | 9.24 | 3.08 | 9.24 | 3.08 | -39.71 | 1675.5 | 0.07 |
| 5 | 171 | -4765 | -10144 | 271 | 192 | 22 | 9292 | 9.24 | 3.08 | 9.24 | 3.08 | -38.82 | 1637.8 | 0.07 |

apost= 6.16 aant= --  ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 205 | -5596 | -12248 | 276 | 173 | -73 | 6089 | 3.08 | 9.24 | 9.24 | 3.08 | -14.75 | 123.6 | 0.00 |
| 4 | 205 | -4970 | -11182 | 273 | 187 | -71 | 5802 | 3.08 | 9.24 | 9.24 | 3.08 | -14.06 | 117.8 | 0.00 |
| 5 | 205 | -4765 | -10827 | 271 | 192 | -71 | 5707 | 3.08 | 9.24 | 9.24 | 3.08 | -13.82 | 115.8 | 0.00 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 239 | -5596 | -13006 | 276 | 173 | -167 | 1773 | 3.08 | 9.24 | 9.24 | 3.08 | -4.29 | 36.0 | 0.00 |
| 4 | 239 | -4970 | -11884 | 273 | 187 | -164 | 1859 | 3.08 | 9.24 | 9.24 | 3.08 | -4.50 | 37.7 | 0.00 |
| 5 | 239 | -4765 | -11510 | 271 | 192 | -163 | 1888 | 3.08 | 9.24 | 9.24 | 3.08 | -4.57 | 38.3 | 0.00 |

apost= --  aant= 6.16 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 273 | -5596 | -13764 | 276 | 173 | -261 | -2803 | 3.08 | 9.24 | 4.62 | 9.24 | -6.71 | 56.6 | 0.00 |
| 4 | 273 | -4970 | -12586 | 273 | 187 | -258 | -2324 | 3.08 | 9.24 | 4.62 | 9.24 | -5.56 | 46.9 | 0.00 |
| 5 | 273 | -4765 | -12193 | 271 | 192 | -256 | -2164 | 3.08 | 9.24 | 4.62 | 9.24 | -5.18 | 43.7 | 0.00 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 308 | -5596 | -14522 | 276 | 173 | -355 | -7637 | 3.08 | 9.24 | 4.62 | 9.24 | -18.27 | 154.2 | 0.00 |
| 4 | 308 | -4970 | -13288 | 273 | 187 | -351 | -6747 | 3.08 | 9.24 | 4.62 | 9.24 | -16.14 | 136.2 | 0.00 |
| 5 | 308 | -4765 | -12877 | 271 | 192 | -348 | -6450 | 3.08 | 9.24 | 4.62 | 9.24 | -15.43 | 130.2 | 0.00 |

apost= --  aant= 6.16 ainf= 1.54 asup= 6.16  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 342 | -5596 | -15280 | 276 | 173 | -449 | -12730 | 3.08 | 9.24 | 6.16 | 9.24 | -49.86 | 2227.8 | 0.12 |
| 4 | 342 | -4970 | -13990 | 273 | 187 | -444 | -11410 | 3.08 | 9.24 | 6.16 | 9.24 | -44.69 | 1996.8 | 0.10 |
| 5 | 342 | -4765 | -13560 | 271 | 192 | -441 | -10970 | 3.08 | 9.24 | 6.16 | 9.24 | -42.97 | 1919.8 | 0.09 |

apost= --  aant= 6.16 ainf= 3.08 asup= 6.16  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 46**  NI 16159  NF 16160  SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.4080 5.3856 24.7936 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -7394 | 19440 | 143 | 2450 | 292 | -28724 | 9.24 | 4.62 | 7.70 | 15.39 | -91.85 | 3067.4 | 0.15 |
| 4 | 0 | -6713 | 18140 | 157 | 2217 | 319 | -27049 | 9.24 | 4.62 | 7.70 | 15.39 | -86.49 | 2888.5 | 0.14 |
| 5 | 0 | -6484 | 17710 | 161 | 2141 | 325 | -26504 | 9.24 | 4.62 | 7.70 | 15.39 | -84.75 | 2830.3 | 0.14 |
| apost= 6.16 aant= 1.54 ainf= 4.62 asup= 12.32 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 34 | -7394 | 18601 | 143 | 2450 | 244 | -25203 | 9.24 | 4.62 | 6.16 | 12.32 | -89.32 | 3344.8 | 0.18 |
| 4 | 34 | -6713 | 17356 | 157 | 2217 | 266 | -23763 | 9.24 | 4.62 | 6.16 | 12.32 | -84.22 | 3153.7 | 0.17 |
| 5 | 34 | -6484 | 16944 | 161 | 2141 | 271 | -23294 | 9.24 | 4.62 | 6.16 | 12.32 | -82.56 | 3091.5 | 0.16 |
| apost= 6.16 aant= 1.54 ainf= 3.08 asup= 9.24 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 68 | -7394 | 17762 | 143 | 2450 | 196 | -19050 | 9.24 | 4.62 | 4.62 | 9.24 | -77.02 | 3345.1 | 0.19 |
| 4 | 68 | -6713 | 16572 | 157 | 2217 | 212 | -18022 | 9.24 | 4.62 | 4.62 | 9.24 | -72.86 | 3164.6 | 0.18 |
| 5 | 68 | -6484 | 16178 | 161 | 2141 | 217 | -17687 | 9.24 | 4.62 | 4.62 | 9.24 | -71.51 | 3105.9 | 0.18 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 102 | -7394 | 16923 | 143 | 2450 | 147 | -13181 | 9.24 | 4.62 | 4.62 | 9.24 | -53.29 | 2314.5 | 0.12 |
| 4 | 102 | -6713 | 15788 | 157 | 2217 | 159 | -12546 | 9.24 | 4.62 | 4.62 | 9.24 | -50.72 | 2203.1 | 0.11 |
| 5 | 102 | -6484 | 15412 | 161 | 2141 | 162 | -12340 | 9.24 | 4.62 | 4.62 | 9.24 | -49.89 | 2166.9 | 0.11 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 135 | -7394 | 16084 | 143 | 2450 | 99 | -7596 | 9.24 | 4.62 | 4.62 | 9.24 | -18.17 | 153.4 | 0.00 |
| 4 | 135 | -6713 | 15004 | 157 | 2217 | 106 | -7336 | 9.24 | 4.62 | 4.62 | 9.24 | -17.55 | 148.1 | 0.00 |
| 5 | 135 | -6484 | 14646 | 161 | 2141 | 108 | -7252 | 9.24 | 4.62 | 4.62 | 9.24 | -17.35 | 146.4 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 169 | -7394 | 15245 | 143 | 2450 | 51 | -2295 | 9.24 | 4.62 | 4.62 | 9.24 | -5.49 | 46.3 | 0.00 |
| 4 | 169 | -6713 | 14220 | 157 | 2217 | 53 | -2391 | 9.24 | 4.62 | 4.62 | 9.24 | -5.72 | 48.3 | 0.00 |
| 5 | 169 | -6484 | 13880 | 161 | 2141 | 53 | -2423 | 9.24 | 4.62 | 4.62 | 9.24 | -5.80 | 48.9 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 203 | -7394 | 14406 | 143 | 2450 | 3 | 2722 | 9.24 | 4.62 | 9.24 | 4.62 | -6.51 | 55.0 | 0.00 |
| 4 | 203 | -6713 | 13436 | 157 | 2217 | 0 | 2288 | 9.24 | 4.62 | 9.24 | 4.62 | -5.47 | 46.2 | 0.00 |
| 5 | 203 | -6484 | 13114 | 161 | 2141 | -1 | 2146 | 9.24 | 4.62 | 9.24 | 4.62 | -5.14 | 43.3 | 0.00 |
| apost= 6.16 aant= 1.54 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 237 | -7394 | 13567 | 143 | 2450 | -46 | 7455 | 4.62 | 9.24 | 9.24 | 4.62 | -17.84 | 150.5 | 0.00 |
| 4 | 237 | -6713 | 12652 | 157 | 2217 | -53 | 6702 | 4.62 | 9.24 | 9.24 | 4.62 | -16.04 | 135.3 | 0.00 |
| 5 | 237 | -6484 | 12348 | 161 | 2141 | -55 | 6456 | 4.62 | 9.24 | 9.24 | 4.62 | -15.45 | 130.4 | 0.00 |
| apost= 1.54 aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 271 | -7394 | 12728 | 143 | 2450 | -94 | 11904 | 4.62 | 9.24 | 9.24 | 4.62 | -48.13 | 2090.4 | 0.11 |
| 4 | 271 | -6713 | 11868 | 157 | 2217 | -106 | 10850 | 4.62 | 9.24 | 9.24 | 4.62 | -43.87 | 1905.3 | 0.09 |
| 5 | 271 | -6484 | 11582 | 161 | 2141 | -110 | 10507 | 4.62 | 9.24 | 9.24 | 4.62 | -42.48 | 1845.0 | 0.09 |
| apost= 1.54 aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 305 | -7394 | 11889 | 143 | 2450 | -142 | 16069 | 4.62 | 9.24 | 9.24 | 4.62 | -64.97 | 2821.7 | 0.16 |
| 4 | 305 | -6713 | 11084 | 157 | 2217 | -159 | 14733 | 4.62 | 9.24 | 9.24 | 4.62 | -59.56 | 2587.1 | 0.14 |
| 5 | 305 | -6484 | 10816 | 161 | 2141 | -164 | 14298 | 4.62 | 9.24 | 9.24 | 4.62 | -57.81 | 2510.7 | 0.14 |
| apost= 1.54 aant= 6.16 ainf= 6.16 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 338 | -7394 | 11050 | 143 | 2450 | -191 | 19950 | 9.24 | 9.24 | 10.78 | 4.62 | -76.35 | 3020.8 | 0.16 |
| 4 | 338 | -6713 | 10300 | 157 | 2217 | -212 | 18350 | 9.24 | 9.24 | 10.78 | 4.62 | -70.23 | 2778.6 | 0.15 |
| 5 | 338 | -6484 | 10050 | 161 | 2141 | -218 | 17830 | 9.24 | 9.24 | 10.78 | 4.62 | -68.24 | 2699.8 | 0.14 |
| apost= 6.16 aant= 6.16 ainf= 7.70 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 47** NI 16160 NF 16161 SEZ. Rp B= 40.0 H= 70.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 7.0000 12.4080 5.3856 24.7936 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -7567 | 5244 | 384 | 696 | 722 | 19420 | 9.24 | 9.24 | 10.78 | 4.62 | -74.32 | 2940.6 | 0.16 |
| 4 | 0 | -6867 | 4960 | 363 | 691 | 685 | 17840 | 9.24 | 9.24 | 10.78 | 4.62 | -68.27 | 2701.3 | 0.14 |
| 5 | 0 | -6633 | 4866 | 356 | 689 | 673 | 17320 | 9.24 | 9.24 | 10.78 | 4.62 | -66.28 | 2622.6 | 0.14 |
| apost= 6.16 aant= 6.16 ainf= 7.70 asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 33 | -7567 | 4435 | 384 | 696 | 597 | 20999 | 9.24 | 4.62 | 10.78 | 3.08 | -82.96 | 3192.4 | 0.17 |
| 4 | 33 | -6867 | 4204 | 363 | 691 | 567 | 19335 | 9.24 | 4.62 | 10.78 | 3.08 | -76.39 | 2939.6 | 0.16 |
| 5 | 33 | -6633 | 4127 | 356 | 689 | 557 | 18788 | 9.24 | 4.62 | 10.78 | 3.08 | -74.23 | 2856.3 | 0.15 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | -7567 | 3626 | 384 | 696 | 471 | 22313 | 9.24 | 4.62 | 10.78 | 3.08 | -88.16 | 3392.3 | 0.19 |
| 4 | 65 | -6867 | 3448 | 363 | 691 | 448 | 20584 | 9.24 | 4.62 | 10.78 | 3.08 | -81.32 | 3129.4 | 0.17 |
| 5 | 65 | -6633 | 3389 | 356 | 689 | 441 | 20014 | 9.24 | 4.62 | 10.78 | 3.08 | -79.07 | 3042.7 | 0.17 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 98 | -7567 | 2817 | 384 | 696 | 346 | 23364 | 9.24 | 4.62 | 12.32 | 3.08 | -88.05 | 3125.9 | 0.16 |
| 4 | 98 | -6867 | 2691 | 363 | 691 | 330 | 21586 | 9.24 | 4.62 | 12.32 | 3.08 | -81.35 | 2888.0 | 0.15 |
| 5 | 98 | -6633 | 2650 | 356 | 689 | 325 | 21000 | 9.24 | 4.62 | 12.32 | 3.08 | -79.14 | 2809.6 | 0.15 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 131 | -7567 | 2008 | 384 | 696 | 221 | 24151 | 9.24 | 4.62 | 12.32 | 3.08 | -91.01 | 3231.2 | 0.17 |
| 4 | 131 | -6867 | 1935 | 363 | 691 | 212 | 22341 | 9.24 | 4.62 | 12.32 | 3.08 | -84.19 | 2989.0 | 0.16 |
| 5 | 131 | -6633 | 1912 | 356 | 689 | 209 | 21744 | 9.24 | 4.62 | 12.32 | 3.08 | -81.94 | 2909.2 | 0.15 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 163 | -7567 | 1199 | 384 | 696 | 95 | 24674 | 9.24 | 4.62 | 12.32 | 3.08 | -92.98 | 3301.2 | 0.17 |
| 4 | 163 | -6867 | 1179 | 363 | 691 | 93 | 22849 | 9.24 | 4.62 | 12.32 | 3.08 | -86.11 | 3057.0 | 0.16 |
| 5 | 163 | -6633 | 1173 | 356 | 689 | 92 | 22248 | 9.24 | 4.62 | 12.32 | 3.08 | -83.84 | 2976.5 | 0.15 |

apost= 6.16 aant= 1.54 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 196 | -7567 | 390 | 384 | 696 | -30 | 24933 | 4.62 | 9.24 | 12.32 | 3.08 | -93.96 | 3335.8 | 0.18 |
| 4 | 196 | -6867 | 423 | 363 | 691 | -25 | 23111 | 4.62 | 9.24 | 12.32 | 3.08 | -87.09 | 3092.0 | 0.16 |
| 5 | 196 | -6633 | 434 | 356 | 689 | -24 | 22510 | 4.62 | 9.24 | 12.32 | 3.08 | -84.83 | 3011.6 | 0.16 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 228 | -7567 | -419 | 384 | 696 | -155 | 24928 | 4.62 | 9.24 | 12.32 | 3.08 | -93.94 | 3335.2 | 0.18 |
| 4 | 228 | -6867 | -333 | 363 | 691 | -144 | 23126 | 4.62 | 9.24 | 12.32 | 3.08 | -87.15 | 3094.0 | 0.16 |
| 5 | 228 | -6633 | -304 | 356 | 689 | -140 | 22532 | 4.62 | 9.24 | 12.32 | 3.08 | -84.91 | 3014.5 | 0.16 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 261 | -7567 | -1228 | 384 | 696 | -280 | 24659 | 4.62 | 9.24 | 12.32 | 3.08 | -92.93 | 3299.2 | 0.17 |
| 4 | 261 | -6867 | -1090 | 363 | 691 | -262 | 22894 | 4.62 | 9.24 | 12.32 | 3.08 | -86.28 | 3063.0 | 0.16 |
| 5 | 261 | -6633 | -1043 | 356 | 689 | -256 | 22312 | 4.62 | 9.24 | 12.32 | 3.08 | -84.08 | 2985.2 | 0.16 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 294 | -7567 | -2037 | 384 | 696 | -406 | 24127 | 4.62 | 9.24 | 12.32 | 3.08 | -90.92 | 3227.9 | 0.17 |
| 4 | 294 | -6867 | -1846 | 363 | 691 | -380 | 22415 | 4.62 | 9.24 | 12.32 | 3.08 | -84.47 | 2999.0 | 0.16 |
| 5 | 294 | -6633 | -1781 | 356 | 689 | -372 | 21852 | 4.62 | 9.24 | 12.32 | 3.08 | -82.35 | 2923.5 | 0.15 |

apost= 1.54 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 326 | -7567 | -2846 | 384 | 696 | -531 | 23330 | 9.24 | 9.24 | 12.32 | 3.08 | -87.92 | 3121.4 | 0.16 |
| 4 | 326 | -6867 | -2602 | 363 | 691 | -499 | 21690 | 9.24 | 9.24 | 12.32 | 3.08 | -81.74 | 2901.9 | 0.15 |
| 5 | 326 | -6633 | -2520 | 356 | 689 | -488 | 21150 | 9.24 | 9.24 | 12.32 | 3.08 | -79.70 | 2829.7 | 0.15 |

apost= 6.16 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 48**  NI 16161  NF 16275  SEZ.  Rp  B= 40.0  H= 70.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  7.0000  12.4080  5.3856  24.7936  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -7642 | -8685 | 440 | -705 | 583 | 23840 | 9.24 | 9.24 | 12.32 | 3.08 | -89.84 | 3189.6 | 0.17 |
| 4 | 0 | -6931 | -7945 | 444 | -621 | 593 | 22160 | 9.24 | 9.24 | 12.32 | 3.08 | -83.51 | 2964.8 | 0.15 |
| 5 | 0 | -6694 | -7700 | 445 | -593 | 595 | 21600 | 9.24 | 9.24 | 12.32 | 3.08 | -81.40 | 2889.9 | 0.15 |

apost= 6.16 aant= 6.16 ainf= 9.24 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 34 | -7642 | -9532 | 440 | -705 | 432 | 20726 | 9.24 | 4.62 | 10.78 | 3.08 | -81.89 | 3151.0 | 0.17 |
| 4 | 34 | -6931 | -8738 | 444 | -621 | 441 | 19308 | 9.24 | 4.62 | 10.78 | 3.08 | -76.28 | 2935.4 | 0.16 |
| 5 | 34 | -6694 | -8474 | 445 | -593 | 443 | 18836 | 9.24 | 4.62 | 10.78 | 3.08 | -74.42 | 2863.6 | 0.15 |

apost= 6.16 aant= 1.54 ainf= 7.70 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 68 | -7642 | -10380 | 440 | -705 | 282 | 17322 | 9.24 | 4.62 | 9.24 | 3.08 | -72.36 | 3053.3 | 0.17 |
| 4 | 68 | -6931 | -9530 | 444 | -621 | 289 | 16185 | 9.24 | 4.62 | 9.24 | 3.08 | -67.61 | 2852.9 | 0.16 |
| 5 | 68 | -6694 | -9248 | 445 | -593 | 291 | 15807 | 9.24 | 4.62 | 9.24 | 3.08 | -66.03 | 2786.2 | 0.16 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -7642 | -11228 | 440 | -705 | 132 | 13629 | 9.24 | 4.62 | 9.24 | 3.08 | -56.93 | 2402.3 | 0.13 |
| 4 | 103 | -6931 | -10323 | 444 | -621 | 138 | 12791 | 9.24 | 4.62 | 9.24 | 3.08 | -53.43 | 2254.7 | 0.12 |
| 5 | 103 | -6694 | -10022 | 445 | -593 | 139 | 12513 | 9.24 | 4.62 | 9.24 | 3.08 | -52.27 | 2205.7 | 0.11 |

apost= 6.16 aant= 1.54 ainf= 6.16 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 137 | -7642 | -12075 | 440 | -705 | -19 | 9645 | 4.62 | 9.24 | 9.24 | 3.08 | -40.29 | 1700.1 | 0.08 |
| 4 | 137 | -6931 | -11115 | 444 | -621 | -14 | 9127 | 4.62 | 9.24 | 9.24 | 3.08 | -38.13 | 1608.7 | 0.07 |
| 5 | 137 | -6694 | -10796 | 445 | -593 | -13 | 8955 | 4.62 | 9.24 | 9.24 | 3.08 | -37.41 | 1578.5 | 0.07 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -7642 | -12923 | 440 | -705 | -169 | 5372 | 4.62 | 9.24 | 9.24 | 3.08 | -13.01 | 109.0 | 0.00 |
| 4 | 171 | -6931 | -11908 | 444 | -621 | -166 | 5191 | 4.62 | 9.24 | 9.24 | 3.08 | -12.57 | 105.4 | 0.00 |
| 5 | 171 | -6694 | -11570 | 445 | -593 | -164 | 5132 | 4.62 | 9.24 | 9.24 | 3.08 | -12.43 | 104.2 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 205 | -7642 | -13770 | 440 | -705 | -319 | 809 | 4.62 | 9.24 | 9.24 | 3.08 | -1.96 | 16.4 | 0.00 |
| 4 | 205 | -6931 | -12700 | 444 | -621 | -317 | 985 | 4.62 | 9.24 | 9.24 | 3.08 | -2.39 | 20.0 | 0.00 |
| 5 | 205 | -6694 | -12344 | 445 | -593 | -316 | 1045 | 4.62 | 9.24 | 9.24 | 3.08 | -2.53 | 21.2 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 6.16 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 239 | -7642 | -14618 | 440 | -705 | -470 | -4043 | 4.62 | 9.24 | 3.08 | 9.24 | -9.79 | 82.1 | 0.00 |
| 4 | 239 | -6931 | -13493 | 444 | -621 | -469 | -3493 | 4.62 | 9.24 | 3.08 | 9.24 | -8.46 | 70.9 | 0.00 |
| 5 | 239 | -6694 | -13118 | 445 | -593 | -468 | -3307 | 4.62 | 9.24 | 3.08 | 9.24 | -8.01 | 67.1 | 0.00 |

apost= 1.54 aant= 6.16 ainf= -- asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 273 | -7642 | -15465 | 440 | -705 | -620 | -9186 | 4.62 | 9.24 | 4.62 | 9.24 | -37.14 | 1613.0 | 0.07 |
| 4 | 273 | -6931 | -14285 | 444 | -621 | -620 | -8241 | 4.62 | 9.24 | 4.62 | 9.24 | -19.72 | 166.4 | 0.00 |
| 5 | 273 | -6694 | -13892 | 445 | -593 | -620 | -7923 | 4.62 | 9.24 | 4.62 | 9.24 | -18.96 | 160.0 | 0.00 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 308 | -7642 | -16313 | 440 | -705 | -770 | -14618 | 4.62 | 9.24 | 4.62 | 9.24 | -59.10 | 2566.9 | 0.14 |
| 4 | 308 | -6931 | -15078 | 444 | -621 | -772 | -13260 | 4.62 | 9.24 | 4.62 | 9.24 | -53.61 | 2328.4 | 0.12 |
| 5 | 308 | -6694 | -14666 | 445 | -593 | -772 | -12804 | 4.62 | 9.24 | 4.62 | 9.24 | -51.77 | 2248.4 | 0.12 |

apost= 1.54 aant= 6.16 ainf= 1.54 asup= 6.16 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 342 | -7642 | -17160 | 440 | -705 | -921 | -20340 | 4.62 | 9.24 | 6.16 | 10.78 | -75.47 | 3068.7 | 0.17 |
| 4 | 342 | -6931 | -15870 | 444 | -621 | -924 | -18550 | 4.62 | 9.24 | 6.16 | 10.78 | -68.83 | 2798.6 | 0.15 |
| 5 | 342 | -6694 | -15440 | 445 | -593 | -924 | -17950 | 4.62 | 9.24 | 6.16 | 10.78 | -66.60 | 2708.1 | 0.14 |

apost= 1.54 aant= 6.16 ainf= 3.08 asup= 7.70 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 49** NI 15537 NF 16161 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.0425 5.6610 21.7035 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -2013 | 5735 | -317 | 505 | -457 | -5126 | 4.62 | 4.62 | 3.08 | 6.16 | -74.71 | 2498.7 | 0.15 |
| 4 | 0 | -1826 | 5299 | -306 | 451 | -444 | -4699 | 4.62 | 4.62 | 3.08 | 6.16 | -68.49 | 2290.5 | 0.13 |
| 5 | 0 | -1764 | 5152 | -303 | 432 | -439 | -4556 | 4.62 | 4.62 | 3.08 | 6.16 | -66.40 | 2220.8 | 0.13 |

apost= 1.54 aant= 1.54 ainf= -- asup= 3.08 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -2013 | 4933 | -317 | 505 | -340 | -3155 | 4.62 | 4.62 | 3.08 | 4.62 | -50.85 | 2027.8 | 0.12 |
| 4 | 37 | -1826 | 4560 | -306 | 451 | -331 | -2878 | 4.62 | 4.62 | 3.08 | 4.62 | -46.38 | 1849.5 | 0.11 |
| 5 | 37 | -1764 | 4434 | -303 | 432 | -327 | -2785 | 4.62 | 4.62 | 3.08 | 4.62 | -44.88 | 1789.9 | 0.10 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -2013 | 4131 | -317 | 505 | -223 | -1481 | 4.62 | 4.62 | 3.08 | 4.62 | -14.29 | 113.2 | 0.00 |
| 4 | 74 | -1826 | 3821 | -306 | 451 | -217 | -1330 | 4.62 | 4.62 | 3.08 | 4.62 | -12.84 | 101.6 | 0.00 |
| 5 | 74 | -1764 | 3716 | -303 | 432 | -216 | -1280 | 4.62 | 4.62 | 3.08 | 4.62 | -12.35 | 97.8 | 0.00 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 111 | -2013 | 3329 | -317 | 505 | -106 | -103 | 4.62 | 4.62 | 3.08 | 4.62 | -0.99 | 7.9 | 0.00 |
| 4 | 111 | -1826 | 3082 | -306 | 451 | -104 | -55 | 4.62 | 4.62 | 3.08 | 4.62 | -0.53 | 4.2 | 0.00 |
| 5 | 111 | -1764 | 2997 | -303 | 432 | -104 | -40 | 4.62 | 4.62 | 3.08 | 4.62 | -0.38 | 3.0 | 0.00 |

apost= 1.54 aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | -2013 | 2527 | -317 | 505 | 11 | 979 | 4.62 | 4.62 | 4.62 | 3.08 | -9.45 | 74.8 | 0.00 |
| 4 | 148 | -1826 | 2343 | -306 | 451 | 9 | 947 | 4.62 | 4.62 | 4.62 | 3.08 | -9.14 | 72.3 | 0.00 |
| 5 | 148 | -1764 | 2279 | -303 | 432 | 8 | 935 | 4.62 | 4.62 | 4.62 | 3.08 | -9.03 | 71.5 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 185 | -2013 | 1726 | -317 | 505 | 128 | 1764 | 4.62 | 4.62 | 4.62 | 3.08 | -17.03 | 134.8 | 0.00 |
| 4 | 185 | -1826 | 1604 | -306 | 451 | 122 | 1676 | 4.62 | 4.62 | 4.62 | 3.08 | -16.17 | 128.0 | 0.00 |
| 5 | 185 | -1764 | 1561 | -303 | 432 | 120 | 1645 | 4.62 | 4.62 | 4.62 | 3.08 | -15.87 | 125.7 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 222 | -2013 | 924 | -317 | 505 | 245 | 2254 | 4.62 | 4.62 | 4.62 | 3.08 | -36.32 | 1448.4 | 0.07 |
| 4 | 222 | -1826 | 864 | -306 | 451 | 235 | 2131 | 4.62 | 4.62 | 4.62 | 3.08 | -34.35 | 1369.8 | 0.06 |
| 5 | 222 | -1764 | 843 | -303 | 432 | 232 | 2089 | 4.62 | 4.62 | 4.62 | 3.08 | -33.66 | 1342.3 | 0.06 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 259 | -2013 | 122 | -317 | 505 | 362 | 2447 | 4.62 | 4.62 | 4.62 | 3.08 | -39.43 | 1572.6 | 0.08 |
| 4 | 259 | -1826 | 125 | -306 | 451 | 348 | 2314 | 4.62 | 4.62 | 4.62 | 3.08 | -37.29 | 1487.2 | 0.07 |
| 5 | 259 | -1764 | 125 | -303 | 432 | 344 | 2268 | 4.62 | 4.62 | 4.62 | 3.08 | -36.54 | 1457.3 | 0.07 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 296 | -2013 | -680 | -317 | 505 | 479 | 2344 | 4.62 | 4.62 | 4.62 | 3.08 | -37.77 | 1506.3 | 0.08 |
| 4 | 296 | -1826 | -614 | -306 | 451 | 462 | 2224 | 4.62 | 4.62 | 4.62 | 3.08 | -35.84 | 1429.2 | 0.07 |
| 5 | 296 | -1764 | -594 | -303 | 432 | 456 | 2181 | 4.62 | 4.62 | 4.62 | 3.08 | -35.15 | 1401.6 | 0.07 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -2013 | -1482 | -317 | 505 | 597 | 1945 | 4.62 | 4.62 | 4.62 | 3.08 | -18.77 | 148.6 | 0.00 |
| 4 | 333 | -1826 | -1353 | -306 | 451 | 575 | 1860 | 4.62 | 4.62 | 4.62 | 3.08 | -17.96 | 142.1 | 0.00 |
| 5 | 333 | -1764 | -1312 | -303 | 432 | 567 | 1829 | 4.62 | 4.62 | 4.62 | 3.08 | -17.65 | 139.8 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 369 | -2013 | -2284 | -317 | 505 | 714 | 1249 | 4.62 | 4.62 | 4.62 | 3.08 | -12.05 | 95.4 | 0.00 |
| 4 | 369 | -1826 | -2092 | -306 | 451 | 688 | 1224 | 4.62 | 4.62 | 4.62 | 3.08 | -11.81 | 93.5 | 0.00 |
| 5 | 369 | -1764 | -2030 | -303 | 432 | 679 | 1212 | 4.62 | 4.62 | 4.62 | 3.08 | -11.70 | 92.6 | 0.00 |

apost= 1.54 aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 50**  NI 16161  NF 16165  SEZ.  Rp  B= 30.0  H= 40.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  3.0000  12.5490  5.4468  20.9958  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -1958 | 3556 | -242 | 3 | -400 | -151 | 3.08 | 4.62 | 3.08 | 4.62 | -1.46 | 11.6 | 0.00 |
| 4 | 0 | -1746 | 3250 | -242 | -15 | -404 | -87 | 3.08 | 4.62 | 3.08 | 4.62 | -0.84 | 6.7 | 0.00 |
| 5 | 0 | -1675 | 3150 | -242 | -20 | -404 | -69 | 3.08 | 4.62 | 3.08 | 4.62 | -0.67 | 5.3 | 0.00 |

apost= --  aant= 1.54 ainf= --  asup= 1.54  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -1958 | 2810 | -242 | 3 | -314 | 980 | 3.08 | 4.62 | 4.62 | 3.08 | -9.45 | 74.8 | 0.00 |
| 4 | 36 | -1746 | 2562 | -242 | -15 | -318 | 945 | 3.08 | 4.62 | 4.62 | 3.08 | -9.12 | 72.2 | 0.00 |
| 5 | 36 | -1675 | 2481 | -242 | -20 | -318 | 931 | 3.08 | 4.62 | 4.62 | 3.08 | -8.99 | 71.1 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | -1958 | 2064 | -242 | 3 | -229 | 1845 | 3.08 | 4.62 | 4.62 | 3.08 | -17.81 | 141.0 | 0.00 |
| 4 | 71 | -1746 | 1874 | -242 | -15 | -231 | 1733 | 3.08 | 4.62 | 4.62 | 3.08 | -16.73 | 132.4 | 0.00 |
| 5 | 71 | -1675 | 1813 | -242 | -20 | -232 | 1694 | 3.08 | 4.62 | 4.62 | 3.08 | -16.35 | 129.4 | 0.00 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | -1958 | 1318 | -242 | 3 | -143 | 2446 | 3.08 | 4.62 | 4.62 | 3.08 | -39.42 | 1571.9 | 0.08 |
| 4 | 107 | -1746 | 1186 | -242 | -15 | -145 | 2277 | 3.08 | 4.62 | 4.62 | 3.08 | -36.70 | 1463.5 | 0.07 |
| 5 | 107 | -1675 | 1144 | -242 | -20 | -146 | 2220 | 3.08 | 4.62 | 4.62 | 3.08 | -35.77 | 1426.4 | 0.07 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 142 | -1958 | 572 | -242 | 3 | -57 | 2782 | 3.08 | 4.62 | 4.62 | 3.08 | -44.82 | 1787.6 | 0.10 |
| 4 | 142 | -1746 | 498 | -242 | -15 | -59 | 2577 | 3.08 | 4.62 | 4.62 | 3.08 | -41.52 | 1655.9 | 0.09 |
| 5 | 142 | -1675 | 476 | -242 | -20 | -60 | 2507 | 3.08 | 4.62 | 4.62 | 3.08 | -40.41 | 1611.4 | 0.09 |

apost= --  aant= 1.54 ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 178 | -1958 | -174 | -242 | 3 | 29 | 2852 | 4.62 | 3.08 | 4.62 | 3.08 | -45.96 | 1833.0 | 0.11 |
| 4 | 178 | -1746 | -190 | -242 | -15 | 27 | 2632 | 4.62 | 3.08 | 4.62 | 3.08 | -42.41 | 1691.3 | 0.09 |
| 5 | 178 | -1675 | -192 | -242 | -20 | 26 | 2558 | 4.62 | 3.08 | 4.62 | 3.08 | -41.22 | 1643.7 | 0.09 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 213 | -1958 | -920 | -242 | 3 | 115 | 2658 | 4.62 | 3.08 | 4.62 | 3.08 | -42.83 | 1708.0 | 0.10 |
| 4 | 213 | -1746 | -877 | -242 | -15 | 113 | 2442 | 4.62 | 3.08 | 4.62 | 3.08 | -39.36 | 1569.5 | 0.08 |
| 5 | 213 | -1675 | -861 | -242 | -20 | 112 | 2371 | 4.62 | 3.08 | 4.62 | 3.08 | -38.20 | 1523.4 | 0.08 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 249 | -1958 | -1666 | -242 | 3 | 200 | 2198 | 4.62 | 3.08 | 4.62 | 3.08 | -35.42 | 1412.7 | 0.07 |
| 4 | 249 | -1746 | -1565 | -242 | -15 | 199 | 2008 | 4.62 | 3.08 | 4.62 | 3.08 | -19.38 | 153.5 | 0.00 |
| 5 | 249 | -1675 | -1529 | -242 | -20 | 198 | 1946 | 4.62 | 3.08 | 4.62 | 3.08 | -18.78 | 148.7 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 284 | -1958 | -2412 | -242 | 3 | 286 | 1474 | 4.62 | 3.08 | 4.62 | 3.08 | -14.22 | 112.6 | 0.00 |
| 4 | 284 | -1746 | -2253 | -242 | -15 | 285 | 1330 | 4.62 | 3.08 | 4.62 | 3.08 | -12.84 | 101.6 | 0.00 |
| 5 | 284 | -1675 | -2198 | -242 | -20 | 284 | 1284 | 4.62 | 3.08 | 4.62 | 3.08 | -12.39 | 98.1 | 0.00 |

apost= 1.54 aant= --  ainf= 1.54 asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 320 | -1958 | -3158 | -242 | 3 | 372 | 484 | 4.62 | 3.08 | 4.62 | 3.08 | -4.67 | 37.0 | 0.00 |
| 4 | 320 | -1746 | -2941 | -242 | -15 | 371 | 408 | 4.62 | 3.08 | 4.62 | 3.08 | -3.93 | 31.1 | 0.00 |
| 5 | 320 | -1675 | -2867 | -242 | -20 | 370 | 384 | 4.62 | 3.08 | 4.62 | 3.08 | -3.70 | 29.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 355 | -1958 | -3904 | -242 | 3 | 458 | -770 | 4.62 | 3.08 | 3.08 | 4.62 | -7.44 | 58.9 | 0.00 |
| 4 | 355 | -1746 | -3629 | -242 | -15 | 457 | -760 | 4.62 | 3.08 | 3.08 | 4.62 | -7.33 | 58.0 | 0.00 |
| 5 | 355 | -1675 | -3535 | -242 | -20 | 456 | -754 | 4.62 | 3.08 | 3.08 | 4.62 | -7.27 | 57.6 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 61** NI 15543 NF 16159 SEZ. Rp B= 35.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.5000 13.0425 5.6610 22.2035 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -607 | 3680 | -398 | -404 | -627 | -1451 | 3.08 | 4.62 | 3.08 | 4.62 | -12.15 | 96.5 | 0.00 |
| 4 | 0 | -465 | 3299 | -379 | -377 | -597 | -1155 | 3.08 | 4.62 | 3.08 | 4.62 | -9.68 | 76.8 | 0.00 |
| 5 | 0 | -417 | 3166 | -373 | -368 | -587 | -1050 | 3.08 | 4.62 | 3.08 | 4.62 | -8.80 | 69.8 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -607 | 2860 | -398 | -404 | -480 | -243 | 3.08 | 4.62 | 3.08 | 4.62 | -2.04 | 16.2 | 0.00 |
| 4 | 37 | -465 | 2541 | -379 | -377 | -457 | -76 | 3.08 | 4.62 | 3.08 | 4.62 | -0.64 | 5.1 | 0.00 |
| 5 | 37 | -417 | 2429 | -373 | -368 | -449 | -16 | 3.08 | 4.62 | 3.08 | 4.62 | -0.14 | 1.1 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -607 | 2039 | -398 | -404 | -333 | 662 | 3.08 | 4.62 | 4.62 | 3.08 | -5.54 | 44.0 | 0.00 |
| 4 | 74 | -465 | 1784 | -379 | -377 | -317 | 723 | 3.08 | 4.62 | 4.62 | 3.08 | -6.06 | 48.1 | 0.00 |
| 5 | 74 | -417 | 1693 | -373 | -368 | -311 | 745 | 3.08 | 4.62 | 4.62 | 3.08 | -6.24 | 49.6 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 111 | -607 | 1219 | -398 | -404 | -186 | 1264 | 3.08 | 4.62 | 4.62 | 3.08 | -10.59 | 84.1 | 0.00 |
| 4 | 111 | -465 | 1026 | -379 | -377 | -177 | 1242 | 3.08 | 4.62 | 4.62 | 3.08 | -10.40 | 82.6 | 0.00 |
| 5 | 111 | -417 | 956 | -373 | -368 | -174 | 1234 | 3.08 | 4.62 | 4.62 | 3.08 | -10.34 | 82.1 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | -607 | 399 | -398 | -404 | -39 | 1563 | 3.08 | 4.62 | 4.62 | 3.08 | -13.09 | 103.9 | 0.00 |
| 4 | 148 | -465 | 269 | -379 | -377 | -36 | 1481 | 3.08 | 4.62 | 4.62 | 3.08 | -12.41 | 98.5 | 0.00 |
| 5 | 148 | -417 | 220 | -373 | -368 | -36 | 1451 | 3.08 | 4.62 | 4.62 | 3.08 | -12.16 | 96.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 185 | -607 | -422 | -398 | -404 | 108 | 1558 | 4.62 | 3.08 | 4.62 | 3.08 | -13.05 | 103.7 | 0.00 |
| 4 | 185 | -465 | -489 | -379 | -377 | 104 | 1441 | 4.62 | 3.08 | 4.62 | 3.08 | -12.07 | 95.8 | 0.00 |
| 5 | 185 | -417 | -517 | -373 | -368 | 102 | 1396 | 4.62 | 3.08 | 4.62 | 3.08 | -11.70 | 92.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 222 | -607 | -1242 | -398 | -404 | 255 | 1251 | 4.62 | 3.08 | 4.62 | 3.08 | -10.48 | 83.2 | 0.00 |
| 4 | 222 | -465 | -1247 | -379 | -377 | 244 | 1120 | 4.62 | 3.08 | 4.62 | 3.08 | -9.38 | 74.5 | 0.00 |
| 5 | 222 | -417 | -1254 | -373 | -368 | 240 | 1069 | 4.62 | 3.08 | 4.62 | 3.08 | -8.96 | 71.1 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 259 | -607 | -2062 | -398 | -404 | 402 | 641 | 4.62 | 3.08 | 4.62 | 3.08 | -5.37 | 42.6 | 0.00 |
| 4 | 259 | -465 | -2004 | -379 | -377 | 384 | 520 | 4.62 | 3.08 | 4.62 | 3.08 | -4.35 | 34.6 | 0.00 |
| 5 | 259 | -417 | -1990 | -373 | -368 | 378 | 470 | 4.62 | 3.08 | 4.62 | 3.08 | -3.94 | 31.3 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 296 | -607 | -2882 | -398 | -404 | 549 | -273 | 4.62 | 3.08 | 3.08 | 4.62 | -2.29 | 18.2 | 0.00 |
| 4 | 296 | -465 | -2762 | -379 | -377 | 524 | -361 | 4.62 | 3.08 | 3.08 | 4.62 | -3.02 | 24.0 | 0.00 |
| 5 | 296 | -417 | -2727 | -373 | -368 | 515 | -402 | 4.62 | 3.08 | 3.08 | 4.62 | -3.36 | 26.7 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -607 | -3703 | -398 | -404 | 696 | -1489 | 4.62 | 3.08 | 3.08 | 4.62 | -12.48 | 99.1 | 0.00 |
| 4 | 333 | -465 | -3519 | -379 | -377 | 664 | -1521 | 4.62 | 3.08 | 3.08 | 4.62 | -12.74 | 101.2 | 0.00 |
| 5 | 333 | -417 | -3463 | -373 | -368 | 653 | -1545 | 4.62 | 3.08 | 3.08 | 4.62 | -12.94 | 102.8 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 369 | -607 | -4523 | -398 | -404 | 844 | -2331 | 4.62 | 3.08 | 3.08 | 4.62 | -19.52 | 155.0 | 0.00 |
| 4 | 369 | -465 | -4277 | -379 | -377 | 804 | -2319 | 4.62 | 3.08 | 3.08 | 4.62 | -19.43 | 154.3 | 0.00 |
| 5 | 369 | -417 | -4200 | -373 | -368 | 791 | -2331 | 4.62 | 3.08 | 3.08 | 4.62 | -19.53 | 155.1 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 62** NI 16159 NF 16163 SEZ. Rp B= 35.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.

qy medio: 3.5000 7.2090 5.4468 16.1558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -1907 | 3888 | -268 | 102 | -406 | -2363 | 3.08 | 4.62 | 3.08 | 4.62 | -35.10 | 1511.7 | 0.08 |
| 4 | 0 | -1480 | 3419 | -268 | 120 | -410 | -2057 | 3.08 | 4.62 | 3.08 | 4.62 | -17.23 | 136.8 | 0.00 |
| 5 | 0 | -1341 | 3275 | -268 | 126 | -411 | -1974 | 3.08 | 4.62 | 3.08 | 4.62 | -16.53 | 131.3 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 36 | -1907 | 3314 | -268 | 102 | -311 | -1667 | 3.08 | 4.62 | 3.08 | 4.62 | -13.96 | 110.9 | 0.00 |
| 4 | 36 | -1480 | 2903 | -268 | 120 | -315 | -1447 | 3.08 | 4.62 | 3.08 | 4.62 | -12.12 | 96.3 | 0.00 |
| 5 | 36 | -1341 | 2778 | -268 | 126 | -316 | -1390 | 3.08 | 4.62 | 3.08 | 4.62 | -11.64 | 92.4 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 71 | -1907 | 2740 | -268 | 102 | -216 | -591 | 3.08 | 4.62 | 3.08 | 4.62 | -4.95 | 39.3 | 0.00 |
| 4 | 71 | -1480 | 2387 | -268 | 120 | -220 | -507 | 3.08 | 4.62 | 3.08 | 4.62 | -4.25 | 33.7 | 0.00 |
| 5 | 71 | -1341 | 2282 | -268 | 126 | -221 | -491 | 3.08 | 4.62 | 3.08 | 4.62 | -4.11 | 32.7 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 107 | -1907 | 2166 | -268 | 102 | -121 | 280 | 3.08 | 4.62 | 4.62 | 3.08 | -2.35 | 18.7 | 0.00 |
| 4 | 107 | -1480 | 1871 | -268 | 120 | -125 | 249 | 3.08 | 4.62 | 4.62 | 3.08 | -2.09 | 16.6 | 0.00 |
| 5 | 107 | -1341 | 1785 | -268 | 126 | -126 | 231 | 3.08 | 4.62 | 4.62 | 3.08 | -1.94 | 15.4 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 142 | -1907 | 1592 | -268 | 102 | -26 | 948 | 3.08 | 4.62 | 4.62 | 3.08 | -7.94 | 63.1 | 0.00 |
| 4 | 142 | -1480 | 1355 | -268 | 120 | -29 | 822 | 3.08 | 4.62 | 4.62 | 3.08 | -6.89 | 54.7 | 0.00 |
| 5 | 142 | -1341 | 1289 | -268 | 126 | -31 | 777 | 3.08 | 4.62 | 4.62 | 3.08 | -6.51 | 51.7 | 0.00 |
| apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 178 | -1907 | 1018 | -268 | 102 | 69 | 1412 | 4.62 | 3.08 | 4.62 | 3.08 | -11.82 | 93.9 | 0.00 |
| 4 | 178 | -1480 | 839 | -268 | 120 | 66 | 1212 | 4.62 | 3.08 | 4.62 | 3.08 | -10.15 | 80.6 | 0.00 |
| 5 | 178 | -1341 | 792 | -268 | 126 | 65 | 1147 | 4.62 | 3.08 | 4.62 | 3.08 | -9.61 | 76.3 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 213 | -1907 | 444 | -268 | 102 | 164 | 1671 | 4.62 | 3.08 | 4.62 | 3.08 | -14.00 | 111.2 | 0.00 |
| 4 | 213 | -1480 | 323 | -268 | 120 | 161 | 1418 | 4.62 | 3.08 | 4.62 | 3.08 | -11.88 | 94.3 | 0.00 |
| 5 | 213 | -1341 | 295 | -268 | 126 | 160 | 1340 | 4.62 | 3.08 | 4.62 | 3.08 | -11.22 | 89.1 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 249 | -1907 | -130 | -268 | 102 | 259 | 1727 | 4.62 | 3.08 | 4.62 | 3.08 | -14.47 | 114.9 | 0.00 |
| 4 | 249 | -1480 | -193 | -268 | 120 | 256 | 1441 | 4.62 | 3.08 | 4.62 | 3.08 | -12.07 | 95.9 | 0.00 |
| 5 | 249 | -1341 | -201 | -268 | 126 | 255 | 1356 | 4.62 | 3.08 | 4.62 | 3.08 | -11.36 | 90.2 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 284 | -1907 | -704 | -268 | 102 | 354 | 1579 | 4.62 | 3.08 | 4.62 | 3.08 | -13.22 | 105.0 | 0.00 |
| 4 | 284 | -1480 | -709 | -268 | 120 | 351 | 1281 | 4.62 | 3.08 | 4.62 | 3.08 | -10.73 | 85.2 | 0.00 |
| 5 | 284 | -1341 | -698 | -268 | 126 | 350 | 1196 | 4.62 | 3.08 | 4.62 | 3.08 | -10.02 | 79.6 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 320 | -1907 | -1278 | -268 | 102 | 449 | 1227 | 4.62 | 3.08 | 4.62 | 3.08 | -10.27 | 81.6 | 0.00 |
| 4 | 320 | -1480 | -1225 | -268 | 120 | 447 | 937 | 4.62 | 3.08 | 4.62 | 3.08 | -7.85 | 62.4 | 0.00 |
| 5 | 320 | -1341 | -1194 | -268 | 126 | 445 | 860 | 4.62 | 3.08 | 4.62 | 3.08 | -7.21 | 57.2 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 355 | -1907 | -1852 | -268 | 102 | 544 | 670 | 4.62 | 3.08 | 4.62 | 3.08 | -5.62 | 44.6 | 0.00 |
| 4 | 355 | -1480 | -1741 | -268 | 120 | 542 | 411 | 4.62 | 3.08 | 4.62 | 3.08 | -3.44 | 27.3 | 0.00 |
| 5 | 355 | -1341 | -1691 | -268 | 126 | 541 | 347 | 4.62 | 3.08 | 4.62 | 3.08 | -2.91 | 23.1 | 0.00 |
| apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 69** NI 15548 NF 16158 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 13.0425 5.6610 21.7035 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -972 | 4229 | -377 | 54 | -605 | -2178 | 3.08 | 4.62 | 3.08 | 4.62 | -35.10 | 1399.7 | 0.07 |
| 4 | 0 | -865 | 3875 | -355 | 74 | -569 | -1933 | 3.08 | 4.62 | 3.08 | 4.62 | -18.66 | 147.7 | 0.00 |
| 5 | 0 | -825 | 3753 | -347 | 81 | -556 | -1846 | 3.08 | 4.62 | 3.08 | 4.62 | -17.82 | 141.0 | 0.00 |
| apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 37 | -972 | 3427 | -377 | 54 | -466 | -764 | 3.08 | 4.62 | 3.08 | 4.62 | -7.37 | 58.4 | 0.00 |
| 4 | 37 | -865 | 3136 | -355 | 74 | -438 | -638 | 3.08 | 4.62 | 3.08 | 4.62 | -6.16 | 48.7 | 0.00 |
| 5 | 37 | -825 | 3035 | -347 | 81 | -428 | -592 | 3.08 | 4.62 | 3.08 | 4.62 | -5.71 | 45.2 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 74 | -972 | 2625 | -377 | 54 | -326 | 354 | 3.08 | 4.62 | 4.62 | 3.08 | -3.42 | 27.1 | 0.00 |
| 4 | 74 | -865 | 2397 | -355 | 74 | -307 | 384 | 3.08 | 4.62 | 4.62 | 3.08 | -3.71 | 29.3 | 0.00 |
| 5 | 74 | -825 | 2317 | -347 | 81 | -300 | 396 | 3.08 | 4.62 | 4.62 | 3.08 | -3.83 | 30.3 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 111 | -972 | 1823 | -377 | 54 | -187 | 1176 | 3.08 | 4.62 | 4.62 | 3.08 | -11.35 | 89.8 | 0.00 |
| 4 | 111 | -865 | 1658 | -355 | 74 | -176 | 1133 | 3.08 | 4.62 | 4.62 | 3.08 | -10.94 | 86.6 | 0.00 |
| 5 | 111 | -825 | 1598 | -347 | 81 | -172 | 1120 | 3.08 | 4.62 | 4.62 | 3.08 | -10.81 | 85.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 148 | -972 | 1021 | -377 | 54 | -48 | 1701 | 3.08 | 4.62 | 4.62 | 3.08 | -16.42 | 130.0 | 0.00 |
| 4 | 148 | -865 | 919 | -355 | 74 | -45 | 1609 | 3.08 | 4.62 | 4.62 | 3.08 | -15.53 | 122.9 | 0.00 |
| 5 | 148 | -825 | 880 | -347 | 81 | -43 | 1578 | 3.08 | 4.62 | 4.62 | 3.08 | -15.23 | 120.5 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 185 | -972 | 220 | -377 | 54 | 92 | 1930 | 4.62 | 3.08 | 4.62 | 3.08 | -18.63 | 147.5 | 0.00 |
| 4 | 185 | -865 | 180 | -355 | 74 | 86 | 1812 | 4.62 | 3.08 | 4.62 | 3.08 | -17.49 | 138.4 | 0.00 |
| 5 | 185 | -825 | 162 | -347 | 81 | 85 | 1770 | 4.62 | 3.08 | 4.62 | 3.08 | -17.08 | 135.2 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 222 | -972 | -582 | -377 | 54 | 231 | 1863 | 4.62 | 3.08 | 4.62 | 3.08 | -17.99 | 142.4 | 0.00 |
| 4 | 222 | -865 | -560 | -355 | 74 | 218 | 1741 | 4.62 | 3.08 | 4.62 | 3.08 | -16.81 | 133.1 | 0.00 |
| 5 | 222 | -825 | -556 | -347 | 81 | 213 | 1697 | 4.62 | 3.08 | 4.62 | 3.08 | -16.38 | 129.7 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 259 | -972 | -1384 | -377 | 54 | 370 | 1500 | 4.62 | 3.08 | 4.62 | 3.08 | -14.48 | 114.6 | 0.00 |
| 4 | 259 | -865 | -1299 | -355 | 74 | 349 | 1398 | 4.62 | 3.08 | 4.62 | 3.08 | -13.49 | 106.8 | 0.00 |
| 5 | 259 | -825 | -1274 | -347 | 81 | 341 | 1359 | 4.62 | 3.08 | 4.62 | 3.08 | -13.12 | 103.9 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 296 | -972 | -2186 | -377 | 54 | 510 | 841 | 4.62 | 3.08 | 4.62 | 3.08 | -8.11 | 64.2 | 0.00 |
| 4 | 296 | -865 | -2038 | -355 | 74 | 480 | 782 | 4.62 | 3.08 | 4.62 | 3.08 | -7.55 | 59.7 | 0.00 |
| 5 | 296 | -825 | -1993 | -347 | 81 | 470 | 756 | 4.62 | 3.08 | 4.62 | 3.08 | -7.30 | 57.7 | 0.00 |

apost= 1.54 aant= -- ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 333 | -972 | -2988 | -377 | 54 | 649 | -115 | 4.62 | 3.08 | 3.08 | 4.62 | -1.11 | 8.8 | 0.00 |
| 4 | 333 | -865 | -2777 | -355 | 74 | 611 | -108 | 4.62 | 3.08 | 3.08 | 4.62 | -1.04 | 8.2 | 0.00 |
| 5 | 333 | -825 | -2711 | -347 | 81 | 598 | -113 | 4.62 | 3.08 | 3.08 | 4.62 | -1.09 | 8.6 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 369 | -972 | -3790 | -377 | 54 | 788 | -1367 | 4.62 | 3.08 | 3.08 | 4.62 | -13.19 | 104.4 | 0.00 |
| 4 | 369 | -865 | -3516 | -355 | 74 | 742 | -1270 | 4.62 | 3.08 | 3.08 | 4.62 | -12.26 | 97.0 | 0.00 |
| 5 | 369 | -825 | -3429 | -347 | 81 | 726 | -1247 | 4.62 | 3.08 | 3.08 | 4.62 | -12.04 | 95.3 | 0.00 |

apost= 1.54 aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 70** NI 16158 NF 16162 SEZ. Rp B= 30.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 3.0000 7.2090 5.4468 15.6558 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cm$^2$ | | | | kg/cm$^2$ | | mm |
| 3 | 0 | -1054 | 2671 | -340 | -185 | -596 | -1289 | 3.08 | 4.62 | 3.08 | 4.62 | -12.44 | 98.5 | 0.00 |
| 4 | 0 | -948 | 2388 | -324 | -157 | -569 | -1177 | 3.08 | 4.62 | 3.08 | 4.62 | -11.36 | 89.9 | 0.00 |
| 5 | 0 | -907 | 2296 | -320 | -149 | -561 | -1147 | 3.08 | 4.62 | 3.08 | 4.62 | -11.07 | 87.6 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -1054 | 2115 | -340 | -185 | -475 | -439 | 3.08 | 4.62 | 3.08 | 4.62 | -4.23 | 33.5 | 0.00 |
| 4 | 36 | -948 | 1890 | -324 | -157 | -454 | -417 | 3.08 | 4.62 | 3.08 | 4.62 | -4.03 | 31.9 | 0.00 |
| 5 | 36 | -907 | 1817 | -320 | -149 | -447 | -416 | 3.08 | 4.62 | 3.08 | 4.62 | -4.02 | 31.8 | 0.00 |

apost= -- aant= 1.54 ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | -1054 | 1559 | -340 | -185 | -354 | 214 | 3.08 | 4.62 | 4.62 | 3.08 | -2.06 | 16.3 | 0.00 |
| 4 | 71 | -948 | 1392 | -324 | -157 | -339 | 166 | 3.08 | 4.62 | 4.62 | 3.08 | -1.60 | 12.7 | 0.00 |
| 5 | 71 | -907 | 1338 | -320 | -149 | -334 | 144 | 3.08 | 4.62 | 4.62 | 3.08 | -1.39 | 11.0 | 0.00 |

apost= -- aant= 1.54 ainf= 1.54 asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 107 | -1054 | 1002 | -340 | -185 | -234 | 669 | 3.08 | 4.62 | 4.62 | 3.08 | -6.46 | 51.1 | 0.00 |
| 4 | 107 | -948 | 893 | -324 | -157 | -223 | 571 | 3.08 | 4.62 | 4.62 | 3.08 | -5.52 | 43.7 | 0.00 |

```
 5   107    -907     860    -320     -149    -220     535     3.08   4.62   4.62   3.08     -5.16      40.9    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   142   -1054     446    -340     -185    -113     926     3.08   4.62   4.62   3.08     -8.94      70.8    0.00
 4   142    -948     395    -324     -157    -108     800     3.08   4.62   4.62   3.08     -7.72      61.1    0.00
 5   142    -907     381    -320     -149    -107     755     3.08   4.62   4.62   3.08     -7.29      57.7    0.00

apost= --      aant= 1.54 ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   178   -1054    -110    -340     -185       8     986     3.08   3.08   4.62   3.08     -9.52      75.3    0.00
 4   178    -948    -103    -324     -157       7     852     3.08   3.08   4.62   3.08     -8.22      65.1    0.00
 5   178    -907     -98    -320     -149       7     805     3.08   3.08   4.62   3.08     -7.77      61.5    0.00

apost= --      aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   213   -1054    -666    -340     -185     129     848     4.62   3.08   4.62   3.08     -8.18      64.8    0.00
 4   213    -948    -601    -324     -157     122     727     4.62   3.08   4.62   3.08     -7.02      55.5    0.00
 5   213    -907    -577    -320     -149     120     685     4.62   3.08   4.62   3.08     -6.61      52.4    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   249   -1054   -1222    -340     -185     249     512     4.62   3.08   4.62   3.08     -4.95      39.2    0.00
 4   249    -948   -1099    -324     -157     238     425     4.62   3.08   4.62   3.08     -4.10      32.4    0.00
 5   249    -907   -1056    -320     -149     234     395     4.62   3.08   4.62   3.08     -3.81      30.2    0.00

apost= 1.54 aant= --      ainf= 1.54 asup= --       ( e armatura base = 4 X 1.54 )

 3   284   -1054   -1779    -340     -185     370     -21     4.62   3.08   3.08   4.62     -0.20       1.6    0.00
 4   284    -948   -1598    -324     -157     353     -55     4.62   3.08   3.08   4.62     -0.53       4.2    0.00
 5   284    -907   -1534    -320     -149     347     -65     4.62   3.08   3.08   4.62     -0.63       5.0    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   320   -1054   -2335    -340     -185     491    -752     4.62   3.08   3.08   4.62     -7.25      57.4    0.00
 4   320    -948   -2096    -324     -157     468    -711     4.62   3.08   3.08   4.62     -6.86      54.3    0.00
 5   320    -907   -2013    -320     -149     461    -696     4.62   3.08   3.08   4.62     -6.71      53.1    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )

 3   355   -1054   -2891    -340     -185     612   -1680     4.62   3.08   3.08   4.62    -16.21     128.4    0.00
 4   355    -948   -2594    -324     -157     583   -1544     4.62   3.08   3.08   4.62    -14.90     118.0    0.00
 5   355    -907   -2492    -320     -149     575   -1496     4.62   3.08   3.08   4.62    -14.44     114.3    0.00

apost= 1.54 aant= --      ainf= --      asup= 1.54  ( e armatura base = 4 X 1.54 )
```

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **56** Tabella: **Travi scala**
Descrizione: **Travi scala 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 19** NI 17608 NF 17664 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cm$^2$ | | | kg/cm$^2$ | mm |
| 3 | 0 | -0 | 5155 | 557 | 0 | 145 | -2330 | 3.08 | 3.08 | 3.08 | 4.62 | -97.29 | 2834.7 | 0.16 |
| 4 | 0 | -0 | 4596 | 508 | 0 | 138 | -2105 | 3.08 | 3.08 | 3.08 | 4.62 | -87.90 | 2560.9 | 0.15 |
| 5 | 0 | -0 | 4410 | 491 | 0 | 136 | -2030 | 3.08 | 3.08 | 3.08 | 4.62 | -84.77 | 2469.7 | 0.14 |
| apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 10 | -0 | 4954 | 557 | 0 | 90 | -1830 | 3.08 | 3.08 | 3.08 | 3.08 | -87.56 | 3288.4 | 0.23 |
| 4 | 10 | -0 | 4419 | 508 | 0 | 88 | -1659 | 3.08 | 3.08 | 3.08 | 3.08 | -79.39 | 2981.4 | 0.21 |
| 5 | 10 | -0 | 4241 | 491 | 0 | 87 | -1602 | 3.08 | 3.08 | 3.08 | 3.08 | -76.66 | 2878.9 | 0.20 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 20 | -0 | 4753 | 557 | 0 | 35 | -1349 | 3.08 | 3.08 | 3.08 | 3.08 | -64.57 | 2424.8 | 0.16 |
| 4 | 20 | -0 | 4242 | 508 | 0 | 38 | -1230 | 3.08 | 3.08 | 3.08 | 3.08 | -58.87 | 2210.9 | 0.14 |
| 5 | 20 | -0 | 4072 | 491 | 0 | 39 | -1190 | 3.08 | 3.08 | 3.08 | 3.08 | -56.97 | 2139.4 | 0.14 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 30 | -0 | 4552 | 557 | 0 | -20 | -889 | 3.08 | 3.08 | 3.08 | 3.08 | -42.52 | 1597.0 | 0.09 |
| 4 | 30 | -0 | 4066 | 508 | 0 | -13 | -819 | 3.08 | 3.08 | 3.08 | 3.08 | -39.19 | 1471.9 | 0.08 |
| 5 | 30 | -0 | 3904 | 491 | 0 | -10 | -796 | 3.08 | 3.08 | 3.08 | 3.08 | -38.07 | 1429.9 | 0.08 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 40 | -0 | 4351 | 557 | 0 | -76 | -448 | 3.08 | 3.08 | 3.08 | 3.08 | -13.76 | 106.7 | 0.00 |
| 4 | 40 | -0 | 3889 | 508 | 0 | -63 | -425 | 3.08 | 3.08 | 3.08 | 3.08 | -13.07 | 101.3 | 0.00 |
| 5 | 40 | -0 | 3735 | 491 | 0 | -59 | -418 | 3.08 | 3.08 | 3.08 | 3.08 | -12.83 | 99.4 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 50 | -0 | 4150 | 557 | 0 | -131 | -27 | 3.08 | 3.08 | 3.08 | 3.08 | -0.84 | 6.5 | 0.00 |
| 4 | 50 | -0 | 3712 | 508 | 0 | -113 | -49 | 3.08 | 3.08 | 3.08 | 3.08 | -1.51 | 11.7 | 0.00 |
| 5 | 50 | -0 | 3566 | 491 | 0 | -107 | -56 | 3.08 | 3.08 | 3.08 | 3.08 | -1.73 | 13.4 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 59 | -0 | 3948 | 557 | 0 | -186 | 374 | 3.08 | 3.08 | 3.08 | 3.08 | -11.48 | 89.0 | 0.00 |
| 4 | 59 | -0 | 3535 | 508 | 0 | -163 | 309 | 3.08 | 3.08 | 3.08 | 3.08 | -9.51 | 73.7 | 0.00 |
| 5 | 59 | -0 | 3397 | 491 | 0 | -156 | 288 | 3.08 | 3.08 | 3.08 | 3.08 | -8.87 | 68.7 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 69 | -0 | 3747 | 557 | 0 | -241 | 755 | 3.08 | 3.08 | 3.08 | 3.08 | -36.11 | 1356.3 | 0.07 |
| 4 | 69 | -0 | 3358 | 508 | 0 | -214 | 651 | 3.08 | 3.08 | 3.08 | 3.08 | -31.14 | 1169.3 | 0.05 |
| 5 | 69 | -0 | 3228 | 491 | 0 | -204 | 616 | 3.08 | 3.08 | 3.08 | 3.08 | -18.94 | 146.8 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 79 | -0 | 3546 | 557 | 0 | -296 | 1116 | 3.08 | 3.08 | 3.08 | 3.08 | -53.39 | 2005.1 | 0.13 |
| 4 | 79 | -0 | 3182 | 508 | 0 | -264 | 974 | 3.08 | 3.08 | 3.08 | 3.08 | -46.62 | 1751.0 | 0.11 |
| 5 | 79 | -0 | 3060 | 491 | 0 | -253 | 928 | 3.08 | 3.08 | 3.08 | 3.08 | -44.39 | 1667.3 | 0.10 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 89 | -0 | 3345 | 557 | 0 | -351 | 1457 | 3.08 | 3.08 | 3.08 | 3.08 | -69.72 | 2618.2 | 0.18 |
| 4 | 89 | -0 | 3005 | 508 | 0 | -314 | 1280 | 3.08 | 3.08 | 3.08 | 3.08 | -61.27 | 2301.2 | 0.15 |
| 5 | 89 | -0 | 2891 | 491 | 0 | -302 | 1222 | 3.08 | 3.08 | 3.08 | 3.08 | -58.49 | 2196.6 | 0.14 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 99 | -0 | 3144 | 557 | 0 | -406 | 1778 | 3.08 | 3.08 | 3.08 | 3.08 | -85.09 | 3195.6 | 0.22 |
| 4 | 99 | -0 | 2828 | 508 | 0 | -364 | 1569 | 3.08 | 3.08 | 3.08 | 3.08 | -75.09 | 2819.9 | 0.19 |
| 5 | 99 | -0 | 2722 | 491 | 0 | -350 | 1500 | 3.08 | 3.08 | 3.08 | 3.08 | -71.79 | 2695.9 | 0.18 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 20** NI 17664 NF 17600 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -0 | 514 | -44 | 0 | -138 | 1390 | 3.08 | 3.08 | 3.08 | 3.08 | -66.52 | 2498.2 | 0.17 |
| 4 | 0 | -0 | 481 | -53 | 0 | -139 | 1207 | 3.08 | 3.08 | 3.08 | 3.08 | -57.76 | 2169.3 | 0.14 |
| 5 | 0 | -0 | 471 | -56 | 0 | -139 | 1146 | 3.08 | 3.08 | 3.08 | 3.08 | -54.84 | 2059.7 | 0.13 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 21 | -0 | 97 | -44 | 0 | -129 | 1453 | 3.08 | 3.08 | 3.08 | 3.08 | -69.52 | 2610.9 | 0.18 |
| 4 | 21 | -0 | 115 | -53 | 0 | -128 | 1268 | 3.08 | 3.08 | 3.08 | 3.08 | -60.69 | 2279.3 | 0.15 |
| 5 | 21 | -0 | 121 | -56 | 0 | -128 | 1207 | 3.08 | 3.08 | 3.08 | 3.08 | -57.75 | 2168.7 | 0.14 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 41 | -0 | -319 | -44 | 0 | -120 | 1430 | 3.08 | 3.08 | 3.08 | 3.08 | -68.44 | 2570.2 | 0.17 |
| 4 | 41 | -0 | -251 | -53 | 0 | -117 | 1254 | 3.08 | 3.08 | 3.08 | 3.08 | -60.03 | 2254.4 | 0.15 |
| 5 | 41 | -0 | -228 | -56 | 0 | -116 | 1196 | 3.08 | 3.08 | 3.08 | 3.08 | -57.22 | 2149.0 | 0.14 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 62 | -0 | -735 | -44 | 0 | -111 | 1322 | 3.08 | 3.08 | 3.08 | 3.08 | -63.27 | 2376.0 | 0.16 |
| 4 | 62 | -0 | -617 | -53 | 0 | -106 | 1165 | 3.08 | 3.08 | 3.08 | 3.08 | -55.77 | 2094.5 | 0.14 |
| 5 | 62 | -0 | -578 | -56 | 0 | -105 | 1113 | 3.08 | 3.08 | 3.08 | 3.08 | -53.27 | 2000.5 | 0.13 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 82 | -0 | -1152 | -44 | 0 | -102 | 1129 | 3.08 | 3.08 | 3.08 | 3.08 | -54.01 | 2028.5 | 0.13 |
| 4 | 82 | -0 | -983 | -53 | 0 | -96 | 1001 | 3.08 | 3.08 | 3.08 | 3.08 | -47.92 | 1799.8 | 0.11 |
| 5 | 82 | -0 | -927 | -56 | 0 | -93 | 959 | 3.08 | 3.08 | 3.08 | 3.08 | -45.89 | 1723.3 | 0.10 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 103 | -0 | -1568 | -44 | 0 | -93 | 850 | 3.08 | 3.08 | 3.08 | 3.08 | -40.67 | 1527.5 | 0.09 |
| 4 | 103 | -0 | -1349 | -53 | 0 | -85 | 762 | 3.08 | 3.08 | 3.08 | 3.08 | -36.48 | 1370.1 | 0.07 |
| 5 | 103 | -0 | -1277 | -56 | 0 | -82 | 733 | 3.08 | 3.08 | 3.08 | 3.08 | -35.08 | 1317.3 | 0.07 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 123 | -0 | -1985 | -44 | 0 | -84 | 486 | 3.08 | 3.08 | 3.08 | 3.08 | -14.93 | 115.7 | 0.00 |
| 4 | 123 | -0 | -1715 | -53 | 0 | -74 | 448 | 3.08 | 3.08 | 3.08 | 3.08 | -13.77 | 106.7 | 0.00 |
| 5 | 123 | -0 | -1626 | -56 | 0 | -70 | 435 | 3.08 | 3.08 | 3.08 | 3.08 | -13.38 | 103.7 | 0.00 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 144 | -0 | -2401 | -44 | 0 | -75 | 36 | 3.08 | 3.08 | 3.08 | 3.08 | -1.12 | 8.7 | 0.00 |
| 4 | 144 | -0 | -2082 | -53 | 0 | -63 | 59 | 3.08 | 3.08 | 3.08 | 3.08 | -1.81 | 14.0 | 0.00 |
| 5 | 144 | -0 | -1976 | -56 | 0 | -59 | 66 | 3.08 | 3.08 | 3.08 | 3.08 | -2.04 | 15.8 | 0.00 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 164 | -0 | -2817 | -44 | 0 | -66 | -498 | 3.08 | 3.08 | 3.08 | 3.08 | -15.32 | 118.7 | 0.00 |
| 4 | 164 | -0 | -2448 | -53 | 0 | -52 | -405 | 3.08 | 3.08 | 3.08 | 3.08 | -12.45 | 96.5 | 0.00 |
| 5 | 164 | -0 | -2325 | -56 | 0 | -47 | -375 | 3.08 | 3.08 | 3.08 | 3.08 | -11.51 | 89.2 | 0.00 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 185 | -0 | -3234 | -44 | 0 | -57 | -1119 | 3.08 | 3.08 | 3.08 | 3.08 | -53.53 | 2010.3 | 0.13 |
| 4 | 185 | -0 | -2814 | -53 | 0 | -41 | -945 | 3.08 | 3.08 | 3.08 | 3.08 | -45.21 | 1697.7 | 0.10 |
| 5 | 185 | -0 | -2675 | -56 | 0 | -36 | -887 | 3.08 | 3.08 | 3.08 | 3.08 | -42.45 | 1594.1 | 0.09 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 205 | -0 | -3650 | -44 | 0 | -48 | -1824 | 3.08 | 3.08 | 3.08 | 4.62 | -76.16 | 2219.1 | 0.12 |
| 4 | 205 | -0 | -3180 | -53 | 0 | -30 | -1559 | 3.08 | 3.08 | 3.08 | 4.62 | -65.10 | 1896.7 | 0.10 |
| 5 | 205 | -0 | -3024 | -56 | 0 | -24 | -1471 | 3.08 | 3.08 | 3.08 | 4.62 | -61.42 | 1789.6 | 0.10 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 | | ( e armatura base = 4 X 1.54 ) | | | | | | |

**ASTA NUM. 21**  NI 17664  NF 17596  SEZ.  Rp  B= 30.0  H= 22.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.6500  17.0625  15.3000  34.0125  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -0 | 2630 | -200 | 0 | -268 | -271 | 3.08 | 3.08 | 3.08 | 3.08 | -8.32 | 64.5 | 0.00 |
| 4 | 0 | -0 | 2346 | -163 | 0 | -225 | -286 | 3.08 | 3.08 | 3.08 | 3.08 | -8.79 | 68.2 | 0.00 |
| 5 | 0 | -0 | 2251 | -150 | 0 | -211 | -291 | 3.08 | 3.08 | 3.08 | 3.08 | -8.95 | 69.3 | 0.00 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | ( e armatura base = 4 X 1.54 ) | | | | | | |
| 3 | 19 | -0 | 1984 | -200 | 0 | -230 | 168 | 3.08 | 3.08 | 3.08 | 3.08 | -5.16 | 40.0 | 0.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 19 | -0 | 1787 | -163 | 0 | -194 | 107 | 3.08 | 3.08 | 3.08 | 3.08 | -3.28 | 25.4 | 0.00 |
| 5 | 19 | -0 | 1721 | -150 | 0 | -182 | 86 | 3.08 | 3.08 | 3.08 | 3.08 | -2.65 | 20.6 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 38 | -0 | 1337 | -200 | 0 | -192 | 483 | 3.08 | 3.08 | 3.08 | 3.08 | -14.86 | 115.1 | 0.00 |
| 4 | 38 | -0 | 1227 | -163 | 0 | -163 | 393 | 3.08 | 3.08 | 3.08 | 3.08 | -12.08 | 93.6 | 0.00 |
| 5 | 38 | -0 | 1191 | -150 | 0 | -154 | 363 | 3.08 | 3.08 | 3.08 | 3.08 | -11.16 | 86.5 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 57 | -0 | 691 | -200 | 0 | -154 | 676 | 3.08 | 3.08 | 3.08 | 3.08 | -32.36 | 1215.3 | 0.06 |
| 4 | 57 | -0 | 668 | -163 | 0 | -133 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | -17.62 | 136.5 | 0.00 |
| 5 | 57 | -0 | 660 | -150 | 0 | -125 | 539 | 3.08 | 3.08 | 3.08 | 3.08 | -16.57 | 128.4 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 76 | -0 | 44 | -200 | 0 | -116 | 746 | 3.08 | 3.08 | 3.08 | 3.08 | -35.70 | 1340.8 | 0.07 |
| 4 | 76 | -0 | 109 | -163 | 0 | -102 | 647 | 3.08 | 3.08 | 3.08 | 3.08 | -30.98 | 1163.3 | 0.05 |
| 5 | 76 | -0 | 130 | -150 | 0 | -97 | 614 | 3.08 | 3.08 | 3.08 | 3.08 | -18.88 | 146.3 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 95 | -0 | -603 | -200 | 0 | -78 | 693 | 3.08 | 3.08 | 3.08 | 3.08 | -33.16 | 1245.4 | 0.06 |
| 4 | 95 | -0 | -451 | -163 | 0 | -71 | 615 | 3.08 | 3.08 | 3.08 | 3.08 | -18.89 | 146.4 | 0.00 |
| 5 | 95 | -0 | -400 | -150 | 0 | -68 | 589 | 3.08 | 3.08 | 3.08 | 3.08 | -18.09 | 140.2 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 114 | -0 | -1249 | -200 | 0 | -40 | 517 | 3.08 | 3.08 | 3.08 | 3.08 | -15.89 | 123.1 | 0.00 |
| 4 | 114 | -0 | -1010 | -163 | 0 | -40 | 476 | 3.08 | 3.08 | 3.08 | 3.08 | -14.63 | 113.4 | 0.00 |
| 5 | 114 | -0 | -930 | -150 | 0 | -40 | 462 | 3.08 | 3.08 | 3.08 | 3.08 | -14.21 | 110.1 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 133 | -0 | -1896 | -200 | 0 | -2 | 218 | 3.08 | 3.08 | 3.08 | 3.08 | -6.70 | 51.9 | 0.00 |
| 4 | 133 | -0 | -1569 | -163 | 0 | -9 | 231 | 3.08 | 3.08 | 3.08 | 3.08 | -7.10 | 55.0 | 0.00 |
| 5 | 133 | -0 | -1460 | -150 | 0 | -11 | 235 | 3.08 | 3.08 | 3.08 | 3.08 | -7.23 | 56.0 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 152 | -0 | -2542 | -200 | 0 | 36 | -204 | 3.08 | 3.08 | 3.08 | 3.08 | -6.26 | 48.5 | 0.00 |
| 4 | 152 | -0 | -2128 | -163 | 0 | 22 | -120 | 3.08 | 3.08 | 3.08 | 3.08 | -3.70 | 28.7 | 0.00 |
| 5 | 152 | -0 | -1991 | -150 | 0 | 17 | -93 | 3.08 | 3.08 | 3.08 | 3.08 | -2.85 | 22.1 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 171 | -0 | -3189 | -200 | 0 | 75 | -748 | 3.08 | 3.08 | 3.08 | 3.08 | -35.82 | 1345.1 | 0.07 |
| 4 | 171 | -0 | -2688 | -163 | 0 | 53 | -578 | 3.08 | 3.08 | 3.08 | 3.08 | -17.76 | 137.6 | 0.00 |
| 5 | 171 | -0 | -2521 | -150 | 0 | 46 | -521 | 3.08 | 3.08 | 3.08 | 3.08 | -16.03 | 124.2 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 190 | -0 | -3835 | -200 | 0 | 113 | -1416 | 3.08 | 3.08 | 3.08 | 4.62 | -59.13 | 1722.7 | 0.09 |
| 4 | 190 | -0 | -3247 | -163 | 0 | 84 | -1142 | 3.08 | 3.08 | 3.08 | 4.62 | -47.69 | 1389.4 | 0.07 |
| 5 | 190 | -0 | -3051 | -150 | 0 | 74 | -1051 | 3.08 | 3.08 | 3.08 | 4.62 | -43.89 | 1278.6 | 0.06 |

apost= -- aant= -- ainf= -- asup= 1.54 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22** NI 17599 NF 17598 SEZ. Rp B= 20.0 H= 22.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.1000 1.1000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -0 | -452 | 33 | 0 | 23 | 263 | 3.08 | 3.08 | 3.08 | 3.08 | -11.43 | 88.2 | 0.00 |
| 4 | 0 | -0 | -408 | 22 | 0 | 16 | 240 | 3.08 | 3.08 | 3.08 | 3.08 | -10.43 | 80.5 | 0.00 |
| 5 | 0 | -0 | -394 | 18 | 0 | 14 | 232 | 3.08 | 3.08 | 3.08 | 3.08 | -10.09 | 77.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 11 | -0 | -465 | 33 | 0 | 20 | 212 | 3.08 | 3.08 | 3.08 | 3.08 | -9.24 | 71.3 | 0.00 |
| 4 | 11 | -0 | -420 | 22 | 0 | 14 | 194 | 3.08 | 3.08 | 3.08 | 3.08 | -8.45 | 65.2 | 0.00 |
| 5 | 11 | -0 | -406 | 18 | 0 | 12 | 188 | 3.08 | 3.08 | 3.08 | 3.08 | -8.18 | 63.1 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 22 | -0 | -477 | 33 | 0 | 16 | 161 | 3.08 | 3.08 | 3.08 | 3.08 | -6.99 | 53.9 | 0.00 |
| 4 | 22 | -0 | -433 | 22 | 0 | 12 | 147 | 3.08 | 3.08 | 3.08 | 3.08 | -6.41 | 49.5 | 0.00 |
| 5 | 22 | -0 | -418 | 18 | 0 | 10 | 143 | 3.08 | 3.08 | 3.08 | 3.08 | -6.21 | 47.9 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 33 | -0 | -489 | 33 | 0 | 13 | 108 | 3.08 | 3.08 | 3.08 | 3.08 | -4.68 | 36.1 | 0.00 |
| 4 | 33 | -0 | -445 | 22 | 0 | 9 | 99 | 3.08 | 3.08 | 3.08 | 3.08 | -4.31 | 33.3 | 0.00 |
| 5 | 33 | -0 | -430 | 18 | 0 | 8 | 96 | 3.08 | 3.08 | 3.08 | 3.08 | -4.18 | 32.3 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 44 | -0 | -501 | 33 | 0 | 9 | 53 | 3.08 | 3.08 | 3.08 | 3.08 | -2.31 | 17.9 | 0.00 |
| 4 | 44 | -0 | -457 | 22 | 0 | 7 | 50 | 3.08 | 3.08 | 3.08 | 3.08 | -2.16 | 16.6 | 0.00 |
| 5 | 44 | -0 | -442 | 18 | 0 | 6 | 48 | 3.08 | 3.08 | 3.08 | 3.08 | -2.10 | 16.2 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 55 | -0 | -513 | 33 | 0 | 5 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | -0.11 | 0.8 | 0.00 |
| 4 | 55 | -0 | -469 | 22 | 0 | 4 | -1 | 3.08 | 3.08 | 3.08 | 3.08 | -0.06 | 0.4 | 0.00 |
| 5 | 55 | -0 | -454 | 18 | 0 | 4 | -1 | 3.08 | 3.08 | 3.08 | 3.08 | -0.04 | 0.3 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 66 | -0 | -525 | 33 | 0 | 2 | -60 | 3.08 | 3.08 | 3.08 | 3.08 | -2.59 | 20.0 | 0.00 |
| 4 | 66 | -0 | -481 | 22 | 0 | 2 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | -2.33 | 18.0 | 0.00 |
| 5 | 66 | -0 | -466 | 18 | 0 | 2 | -52 | 3.08 | 3.08 | 3.08 | 3.08 | -2.24 | 17.3 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 77 | -0 | -537 | 33 | 0 | -2 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | -5.13 | 39.6 | 0.00 |
| 4 | 77 | -0 | -493 | 22 | 0 | -0 | -107 | 3.08 | 3.08 | 3.08 | 3.08 | -4.66 | 36.0 | 0.00 |
| 5 | 77 | -0 | -478 | 18 | 0 | 0 | -104 | 3.08 | 3.08 | 3.08 | 3.08 | -4.50 | 34.7 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 88 | -0 | -549 | 33 | 0 | -5 | -178 | 3.08 | 3.08 | 3.08 | 3.08 | -7.73 | 59.7 | 0.00 |
| 4 | 88 | -0 | -505 | 22 | 0 | -3 | -162 | 3.08 | 3.08 | 3.08 | 3.08 | -7.04 | 54.4 | 0.00 |
| 5 | 88 | -0 | -490 | 18 | 0 | -2 | -157 | 3.08 | 3.08 | 3.08 | 3.08 | -6.81 | 52.6 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 99 | -0 | -561 | 33 | 0 | -9 | -239 | 3.08 | 3.08 | 3.08 | 3.08 | -10.38 | 80.1 | 0.00 |
| 4 | 99 | -0 | -517 | 22 | 0 | -5 | -218 | 3.08 | 3.08 | 3.08 | 3.08 | -9.49 | 73.2 | 0.00 |
| 5 | 99 | -0 | -502 | 18 | 0 | -4 | -211 | 3.08 | 3.08 | 3.08 | 3.08 | -9.19 | 70.9 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 110 | -0 | -573 | 33 | 0 | -13 | -301 | 3.08 | 3.08 | 3.08 | 3.08 | -13.09 | 101.1 | 0.00 |
| 4 | 110 | -0 | -529 | 22 | 0 | -7 | -276 | 3.08 | 3.08 | 3.08 | 3.08 | -11.99 | 92.6 | 0.00 |
| 5 | 110 | -0 | -515 | 18 | 0 | -6 | -267 | 3.08 | 3.08 | 3.08 | 3.08 | -11.62 | 89.7 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **66** Tabella: **Travi scala**
Descrizione: **Travi nuove 4p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Condizioni ambientali: **Ordinaria**
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 17419 NF 17447 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cm$^2$ | | | kg/cm$^2$ | mm |
| 3 | 0 | -0 | 1802 | 686 | 0 | 129 | -320 | 3.08 | 3.08 | 3.08 | 3.08 | -11.82 | 89.6 | 0.00 |
| 4 | 0 | -0 | 1661 | 633 | 0 | 119 | -296 | 3.08 | 3.08 | 3.08 | 3.08 | -10.94 | 83.0 | 0.00 |
| 5 | 0 | -0 | 1614 | 615 | 0 | 116 | -288 | 3.08 | 3.08 | 3.08 | 3.08 | -10.66 | 80.8 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 6 | -0 | 1794 | 686 | 0 | 90 | -219 | 3.08 | 3.08 | 3.08 | 3.08 | -8.08 | 61.3 | 0.00 |
| 4 | 6 | -0 | 1653 | 633 | 0 | 83 | -203 | 3.08 | 3.08 | 3.08 | 3.08 | -7.50 | 56.9 | 0.00 |
| 5 | 6 | -0 | 1606 | 615 | 0 | 81 | -198 | 3.08 | 3.08 | 3.08 | 3.08 | -7.32 | 55.5 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 11 | -0 | 1785 | 686 | 0 | 52 | -118 | 3.08 | 3.08 | 3.08 | 3.08 | -4.37 | 33.1 | 0.00 |
| 4 | 11 | -0 | 1644 | 633 | 0 | 48 | -110 | 3.08 | 3.08 | 3.08 | 3.08 | -4.08 | 30.9 | 0.00 |
| 5 | 11 | -0 | 1597 | 615 | 0 | 46 | -108 | 3.08 | 3.08 | 3.08 | 3.08 | -3.99 | 30.3 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 17 | -0 | 1777 | 686 | 0 | 13 | -18 | 3.08 | 3.08 | 3.08 | 3.08 | -0.67 | 5.1 | 0.00 |
| 4 | 17 | -0 | 1636 | 633 | 0 | 12 | -18 | 3.08 | 3.08 | 3.08 | 3.08 | -0.68 | 5.1 | 0.00 |
| 5 | 17 | -0 | 1589 | 615 | 0 | 12 | -18 | 3.08 | 3.08 | 3.08 | 3.08 | -0.68 | 5.2 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 22 | -0 | 1768 | 686 | 0 | -25 | 82 | 3.08 | 3.08 | 3.08 | 3.08 | -3.02 | 22.9 | 0.00 |
| 4 | 22 | -0 | 1627 | 633 | 0 | -23 | 73 | 3.08 | 3.08 | 3.08 | 3.08 | -2.71 | 20.6 | 0.00 |
| 5 | 22 | -0 | 1580 | 615 | 0 | -23 | 71 | 3.08 | 3.08 | 3.08 | 3.08 | -2.61 | 19.8 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 28 | -0 | 1760 | 686 | 0 | -64 | 181 | 3.08 | 3.08 | 3.08 | 3.08 | -6.68 | 50.6 | 0.00 |
| 4 | 28 | -0 | 1619 | 633 | 0 | -59 | 165 | 3.08 | 3.08 | 3.08 | 3.08 | -6.08 | 46.1 | 0.00 |
| 5 | 28 | -0 | 1572 | 615 | 0 | -57 | 159 | 3.08 | 3.08 | 3.08 | 3.08 | -5.88 | 44.6 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 34 | -0 | 1752 | 686 | 0 | -102 | 279 | 3.08 | 3.08 | 3.08 | 3.08 | -10.33 | 78.3 | 0.00 |
| 4 | 34 | -0 | 1610 | 633 | 0 | -94 | 255 | 3.08 | 3.08 | 3.08 | 3.08 | -9.43 | 71.5 | 0.00 |
| 5 | 34 | -0 | 1564 | 615 | 0 | -92 | 247 | 3.08 | 3.08 | 3.08 | 3.08 | -9.13 | 69.3 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 39 | -0 | 1743 | 686 | 0 | -141 | 378 | 3.08 | 3.08 | 3.08 | 3.08 | -13.95 | 105.8 | 0.00 |
| 4 | 39 | -0 | 1602 | 633 | 0 | -130 | 346 | 3.08 | 3.08 | 3.08 | 3.08 | -12.77 | 96.8 | 0.00 |
| 5 | 39 | -0 | 1555 | 615 | 0 | -126 | 335 | 3.08 | 3.08 | 3.08 | 3.08 | -12.37 | 93.8 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 45 | -0 | 1735 | 686 | 0 | -179 | 475 | 3.08 | 3.08 | 3.08 | 3.08 | -17.57 | 133.2 | 0.00 |
| 4 | 45 | -0 | 1593 | 633 | 0 | -165 | 435 | 3.08 | 3.08 | 3.08 | 3.08 | -16.09 | 122.0 | 0.00 |
| 5 | 45 | -0 | 1547 | 615 | 0 | -161 | 422 | 3.08 | 3.08 | 3.08 | 3.08 | -15.59 | 118.2 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 51 | -0 | 1726 | 686 | 0 | -218 | 573 | 3.08 | 3.08 | 3.08 | 3.08 | -32.45 | 1150.8 | 0.06 |
| 4 | 51 | -0 | 1585 | 633 | 0 | -201 | 525 | 3.08 | 3.08 | 3.08 | 3.08 | -19.39 | 147.0 | 0.00 |
| 5 | 51 | -0 | 1538 | 615 | 0 | -195 | 509 | 3.08 | 3.08 | 3.08 | 3.08 | -18.79 | 142.5 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 56 | -0 | 1718 | 686 | 0 | -256 | 669 | 3.08 | 3.08 | 3.08 | 3.08 | -37.94 | 1345.3 | 0.07 |
| 4 | 56 | -0 | 1576 | 633 | 0 | -237 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | -34.77 | 1233.0 | 0.06 |
| 5 | 56 | -0 | 1530 | 615 | 0 | -230 | 595 | 3.08 | 3.08 | 3.08 | 3.08 | -33.71 | 1195.4 | 0.06 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 2** NI 17447 NF 17417 SEZ. Rp B= 30.0 H= 20.0 (trave)

categoria: p.p. y qy tot.
qy medio: 1.5000 1.5000 kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -0 | -835 | -306 | 0 | -338 | 689 | 3.08 | 3.08 | 3.08 | 3.08 | -39.06 | 1385.1 | 0.08 |
| 4 | 0 | -0 | -757 | -281 | 0 | -311 | 631 | 3.08 | 3.08 | 3.08 | 3.08 | -35.75 | 1267.7 | 0.07 |
| 5 | 0 | -0 | -731 | -273 | 0 | -302 | 611 | 3.08 | 3.08 | 3.08 | 3.08 | -34.64 | 1228.5 | 0.06 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 13 | -0 | -855 | -306 | 0 | -298 | 579 | 3.08 | 3.08 | 3.08 | 3.08 | -32.81 | 1163.5 | 0.06 |
| 4 | 13 | -0 | -776 | -281 | 0 | -274 | 531 | 3.08 | 3.08 | 3.08 | 3.08 | -30.08 | 1066.7 | 0.05 |
| 5 | 13 | -0 | -750 | -273 | 0 | -266 | 515 | 3.08 | 3.08 | 3.08 | 3.08 | -19.02 | 144.2 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 26 | -0 | -874 | -306 | 0 | -259 | 466 | 3.08 | 3.08 | 3.08 | 3.08 | -17.22 | 130.6 | 0.00 |
| 4 | 26 | -0 | -796 | -281 | 0 | -238 | 428 | 3.08 | 3.08 | 3.08 | 3.08 | -15.82 | 120.0 | 0.00 |
| 5 | 26 | -0 | -770 | -273 | 0 | -230 | 415 | 3.08 | 3.08 | 3.08 | 3.08 | -15.35 | 116.4 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 39 | -0 | -894 | -306 | 0 | -219 | 351 | 3.08 | 3.08 | 3.08 | 3.08 | -12.96 | 98.3 | 0.00 |
| 4 | 39 | -0 | -816 | -281 | 0 | -201 | 323 | 3.08 | 3.08 | 3.08 | 3.08 | -11.94 | 90.5 | 0.00 |
| 5 | 39 | -0 | -789 | -273 | 0 | -195 | 314 | 3.08 | 3.08 | 3.08 | 3.08 | -11.59 | 87.9 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 52 | -0 | -914 | -306 | 0 | -179 | 233 | 3.08 | 3.08 | 3.08 | 3.08 | -8.60 | 65.2 | 0.00 |
| 4 | 52 | -0 | -835 | -281 | 0 | -164 | 215 | 3.08 | 3.08 | 3.08 | 3.08 | -7.96 | 60.3 | 0.00 |
| 5 | 52 | -0 | -809 | -273 | 0 | -159 | 209 | 3.08 | 3.08 | 3.08 | 3.08 | -7.74 | 58.7 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 65 | -0 | -933 | -306 | 0 | -139 | 112 | 3.08 | 3.08 | 3.08 | 3.08 | -4.15 | 31.5 | 0.00 |
| 4 | 65 | -0 | -855 | -281 | 0 | -127 | 105 | 3.08 | 3.08 | 3.08 | 3.08 | -3.88 | 29.4 | 0.00 |
| 5 | 65 | -0 | -828 | -273 | 0 | -124 | 103 | 3.08 | 3.08 | 3.08 | 3.08 | -3.79 | 28.8 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 78 | -0 | -953 | -306 | 0 | -99 | -11 | 3.08 | 3.08 | 3.08 | 3.08 | -0.40 | 3.0 | 0.00 |
| 4 | 78 | -0 | -874 | -281 | 0 | -91 | -8 | 3.08 | 3.08 | 3.08 | 3.08 | -0.29 | 2.2 | 0.00 |
| 5 | 78 | -0 | -848 | -273 | 0 | -88 | -7 | 3.08 | 3.08 | 3.08 | 3.08 | -0.25 | 1.9 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 91 | -0 | -972 | -306 | 0 | -59 | -136 | 3.08 | 3.08 | 3.08 | 3.08 | -5.04 | 38.2 | 0.00 |
| 4 | 91 | -0 | -894 | -281 | 0 | -54 | -123 | 3.08 | 3.08 | 3.08 | 3.08 | -4.55 | 34.5 | 0.00 |
| 5 | 91 | -0 | -868 | -273 | 0 | -52 | -119 | 3.08 | 3.08 | 3.08 | 3.08 | -4.39 | 33.3 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 104 | -0 | -992 | -306 | 0 | -19 | -264 | 3.08 | 3.08 | 3.08 | 3.08 | -9.77 | 74.1 | 0.00 |
| 4 | 104 | -0 | -913 | -281 | 0 | -17 | -241 | 3.08 | 3.08 | 3.08 | 3.08 | -8.91 | 67.5 | 0.00 |
| 5 | 104 | -0 | -887 | -273 | 0 | -17 | -233 | 3.08 | 3.08 | 3.08 | 3.08 | -8.62 | 65.3 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 117 | -0 | -1011 | -306 | 0 | 21 | -395 | 3.08 | 3.08 | 3.08 | 3.08 | -14.60 | 110.7 | 0.00 |
| 4 | 117 | -0 | -933 | -281 | 0 | 19 | -361 | 3.08 | 3.08 | 3.08 | 3.08 | -13.36 | 101.3 | 0.00 |
| 5 | 117 | -0 | -907 | -273 | 0 | 19 | -350 | 3.08 | 3.08 | 3.08 | 3.08 | -12.94 | 98.1 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 130 | -0 | -1031 | -306 | 0 | 61 | -528 | 3.08 | 3.08 | 3.08 | 3.08 | -29.95 | 1062.1 | 0.05 |
| 4 | 130 | -0 | -953 | -281 | 0 | 56 | -485 | 3.08 | 3.08 | 3.08 | 3.08 | -17.91 | 135.8 | 0.00 |
| 5 | 130 | -0 | -926 | -273 | 0 | 54 | -470 | 3.08 | 3.08 | 3.08 | 3.08 | -17.36 | 131.6 | 0.00 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 3**  NI 17447  NF 17326  SEZ.  Rp  B= 30.0  H= 20.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.5000  9.7200  7.3440  18.5640  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | $cm^2$ | | | | $kg/cm^2$ | | mm |
| 3 | 0 | -0 | 2553 | 82 | 0 | 82 | -998 | 3.08 | 3.08 | 3.08 | 3.08 | -56.58 | 2006.4 | 0.13 |
| 4 | 0 | -0 | 2333 | 74 | 0 | 74 | -946 | 3.08 | 3.08 | 3.08 | 3.08 | -53.64 | 1902.1 | 0.12 |
| 5 | 0 | -0 | 2260 | 72 | 0 | 72 | -929 | 3.08 | 3.08 | 3.08 | 3.08 | -52.67 | 1867.7 | 0.12 |
| apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 3 | 21 | -0 | 2170 | 82 | 0 | 65 | -511 | 3.08 | 3.08 | 3.08 | 3.08 | -18.88 | 143.2 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 21 | -0 | 1996 | 74 | 0 | 59 | -500 | 3.08 | 3.08 | 3.08 | 3.08 | -18.47 | 140.0 | 0.00 |
| 5 | 21 | -0 | 1938 | 72 | 0 | 57 | -496 | 3.08 | 3.08 | 3.08 | 3.08 | -18.34 | 139.0 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 41 | -0 | 1787 | 82 | 0 | 48 | -103 | 3.08 | 3.08 | 3.08 | 3.08 | -3.80 | 28.8 | 0.00 |
| 4 | 41 | -0 | 1658 | 74 | 0 | 44 | -123 | 3.08 | 3.08 | 3.08 | 3.08 | -4.54 | 34.4 | 0.00 |
| 5 | 41 | -0 | 1615 | 72 | 0 | 42 | -130 | 3.08 | 3.08 | 3.08 | 3.08 | -4.79 | 36.3 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 62 | -0 | 1404 | 82 | 0 | 31 | 226 | 3.08 | 3.08 | 3.08 | 3.08 | -8.37 | 63.5 | 0.00 |
| 4 | 62 | -0 | 1321 | 74 | 0 | 28 | 184 | 3.08 | 3.08 | 3.08 | 3.08 | -6.82 | 51.7 | 0.00 |
| 5 | 62 | -0 | 1293 | 72 | 0 | 27 | 170 | 3.08 | 3.08 | 3.08 | 3.08 | -6.30 | 47.7 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 83 | -0 | 1021 | 82 | 0 | 14 | 477 | 3.08 | 3.08 | 3.08 | 3.08 | -17.62 | 133.6 | 0.00 |
| 4 | 83 | -0 | 983 | 74 | 0 | 13 | 422 | 3.08 | 3.08 | 3.08 | 3.08 | -15.60 | 118.3 | 0.00 |
| 5 | 83 | -0 | 971 | 72 | 0 | 13 | 404 | 3.08 | 3.08 | 3.08 | 3.08 | -14.92 | 113.2 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 103 | -0 | 639 | 82 | 0 | -3 | 648 | 3.08 | 3.08 | 3.08 | 3.08 | -36.72 | 1302.3 | 0.07 |
| 4 | 103 | -0 | 645 | 74 | 0 | -2 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | -33.45 | 1186.1 | 0.06 |
| 5 | 103 | -0 | 648 | 72 | 0 | -2 | 571 | 3.08 | 3.08 | 3.08 | 3.08 | -32.36 | 1147.4 | 0.06 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 124 | -0 | 256 | 82 | 0 | -20 | 740 | 3.08 | 3.08 | 3.08 | 3.08 | -41.95 | 1487.6 | 0.09 |
| 4 | 124 | -0 | 308 | 74 | 0 | -18 | 688 | 3.08 | 3.08 | 3.08 | 3.08 | -39.02 | 1383.9 | 0.08 |
| 5 | 124 | -0 | 326 | 72 | 0 | -17 | 671 | 3.08 | 3.08 | 3.08 | 3.08 | -38.05 | 1349.4 | 0.07 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 144 | -0 | -127 | 82 | 0 | -37 | 753 | 3.08 | 3.08 | 3.08 | 3.08 | -42.70 | 1514.1 | 0.09 |
| 4 | 144 | -0 | -29 | 74 | 0 | -33 | 717 | 3.08 | 3.08 | 3.08 | 3.08 | -40.65 | 1441.7 | 0.08 |
| 5 | 144 | -0 | 3 | 72 | 0 | -32 | 705 | 3.08 | 3.08 | 3.08 | 3.08 | -39.98 | 1417.7 | 0.08 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 165 | -0 | -510 | 82 | 0 | -54 | 687 | 3.08 | 3.08 | 3.08 | 3.08 | -38.97 | 1381.8 | 0.08 |
| 4 | 165 | -0 | -367 | 74 | 0 | -48 | 676 | 3.08 | 3.08 | 3.08 | 3.08 | -38.34 | 1359.5 | 0.08 |
| 5 | 165 | -0 | -319 | 72 | 0 | -46 | 673 | 3.08 | 3.08 | 3.08 | 3.08 | -38.13 | 1352.3 | 0.07 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 186 | -0 | -893 | 82 | 0 | -71 | 543 | 3.08 | 3.08 | 3.08 | 3.08 | -30.76 | 1090.7 | 0.05 |
| 4 | 186 | -0 | -705 | 74 | 0 | -64 | 566 | 3.08 | 3.08 | 3.08 | 3.08 | -32.07 | 1137.4 | 0.05 |
| 5 | 186 | -0 | -641 | 72 | 0 | -61 | 574 | 3.08 | 3.08 | 3.08 | 3.08 | -32.52 | 1153.2 | 0.06 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 206 | -0 | -1276 | 82 | 0 | -88 | 319 | 3.08 | 3.08 | 3.08 | 3.08 | -11.78 | 89.3 | 0.00 |
| 4 | 206 | -0 | -1042 | 74 | 0 | -79 | 386 | 3.08 | 3.08 | 3.08 | 3.08 | -14.25 | 108.1 | 0.00 |
| 5 | 206 | -0 | -964 | 72 | 0 | -76 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | -15.09 | 114.4 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4** NI 17327 NF 17323 SEZ. Rp B= 20.0 H= 20.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.0000 4.0500 3.0600 8.1100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | [Fx] | [Fy] | [Fz] | [Mx] | [My] | Mz | [APOST] | [AANT] | AINF | ASUP | Sc | Sf | w |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | -- |
| | cm | | kg | | | kg*m | | | | $cm^2$ | | | $kg/cm^2$ | mm |
| 3 | 0 | -0 | 413 | -14 | 0 | -11 | -65 | 3.08 | 3.08 | 3.08 | 3.08 | -3.36 | 25.4 | 0.00 |
| 4 | 0 | -0 | 366 | -13 | 0 | -11 | -58 | 3.08 | 3.08 | 3.08 | 3.08 | -3.00 | 22.6 | 0.00 |
| 5 | 0 | -0 | 350 | -13 | 0 | -10 | -55 | 3.08 | 3.08 | 3.08 | 3.08 | -2.88 | 21.7 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 9 | -0 | 340 | -14 | 0 | -10 | -31 | 3.08 | 3.08 | 3.08 | 3.08 | -1.60 | 12.1 | 0.00 |
| 4 | 9 | -0 | 301 | -13 | 0 | -9 | -27 | 3.08 | 3.08 | 3.08 | 3.08 | -1.43 | 10.8 | 0.00 |
| 5 | 9 | -0 | 288 | -13 | 0 | -9 | -26 | 3.08 | 3.08 | 3.08 | 3.08 | -1.38 | 10.4 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 18 | -0 | 267 | -14 | 0 | -9 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | -0.17 | 1.3 | 0.00 |
| 4 | 18 | -0 | 237 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | -0.17 | 1.3 | 0.00 |
| 5 | 18 | -0 | 226 | -13 | 0 | -8 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | -0.17 | 1.3 | 0.00 |

apost= -- aant= -- ainf= -- asup= -- ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 27 | -0 | 194 | -14 | 0 | -8 | 18 | 3.08 | 3.08 | 3.08 | 3.08 | -0.91 | 6.9 | 0.00 |
| 4 | 27 | -0 | 172 | -13 | 0 | -7 | 15 | 3.08 | 3.08 | 3.08 | 3.08 | -0.79 | 6.0 | 0.00 |
| 5 | 27 | -0 | 164 | -13 | 0 | -7 | 14 | 3.08 | 3.08 | 3.08 | 3.08 | -0.75 | 5.6 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 36 | -0 | 121 | -14 | 0 | -6 | 32 | 3.08 | 3.08 | 3.08 | 3.08 | -1.65 | 12.5 | 0.00 |
| 4 | 36 | -0 | 107 | -13 | 0 | -6 | 28 | 3.08 | 3.08 | 3.08 | 3.08 | -1.44 | 10.9 | 0.00 |
| 5 | 36 | -0 | 103 | -13 | 0 | -6 | 26 | 3.08 | 3.08 | 3.08 | 3.08 | -1.37 | 10.4 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 45 | -0 | 48 | -14 | 0 | -5 | 39 | 3.08 | 3.08 | 3.08 | 3.08 | -2.05 | 15.5 | 0.00 |
| 4 | 45 | -0 | 43 | -13 | 0 | -5 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | -1.80 | 13.6 | 0.00 |
| 5 | 45 | -0 | 41 | -13 | 0 | -5 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | -1.71 | 12.9 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 54 | -0 | 25 | -14 | 0 | -4 | 40 | 3.08 | 3.08 | 3.08 | 3.08 | -2.11 | 15.9 | 0.00 |
| 4 | 54 | -0 | 22 | -13 | 0 | -3 | 35 | 3.08 | 3.08 | 3.08 | 3.08 | -1.84 | 13.9 | 0.00 |
| 5 | 54 | -0 | 21 | -13 | 0 | -3 | 34 | 3.08 | 3.08 | 3.08 | 3.08 | -1.76 | 13.3 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 63 | -0 | 98 | -14 | 0 | -3 | 35 | 3.08 | 3.08 | 3.08 | 3.08 | -1.82 | 13.7 | 0.00 |
| 4 | 63 | -0 | 87 | -13 | 0 | -2 | 30 | 3.08 | 3.08 | 3.08 | 3.08 | -1.59 | 12.0 | 0.00 |
| 5 | 63 | -0 | 83 | -13 | 0 | -2 | 29 | 3.08 | 3.08 | 3.08 | 3.08 | -1.51 | 11.4 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 72 | -0 | 171 | -14 | 0 | -1 | 23 | 3.08 | 3.08 | 3.08 | 3.08 | -1.19 | 9.0 | 0.00 |
| 4 | 72 | -0 | 152 | -13 | 0 | -1 | 20 | 3.08 | 3.08 | 3.08 | 3.08 | -1.03 | 7.8 | 0.00 |
| 5 | 72 | -0 | 145 | -13 | 0 | -1 | 19 | 3.08 | 3.08 | 3.08 | 3.08 | -0.97 | 7.3 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 81 | -0 | 244 | -14 | 0 | -0 | 4 | 3.08 | 3.08 | 3.08 | 3.08 | -0.22 | 1.6 | 0.00 |
| 4 | 81 | -0 | 216 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | -0.16 | 1.2 | 0.00 |
| 5 | 81 | -0 | 207 | -13 | 0 | 0 | 3 | 3.08 | 3.08 | 3.08 | 3.08 | -0.15 | 1.1 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 90 | -0 | 317 | -14 | 0 | 1 | -21 | 3.08 | 3.08 | 3.08 | 3.08 | -1.10 | 8.3 | 0.00 |
| 4 | 90 | -0 | 281 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | -1.00 | 7.6 | 0.00 |
| 5 | 90 | -0 | 269 | -13 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | -0.97 | 7.3 | 0.00 |

apost= --  aant= --  ainf= --  asup= --  ( e armatura base = 4 X 1.54 )

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -48178 | 486 | -1249 | 0 | 0.0 | 2.3 | 0.85 | -5.14 | 0.65 | 1.00 | 0.05 | 4.52 | 0.03 | -- | -- | |
| ½ | 2 | -227490 | 25940 | -5370 | 0 | 2.4 | -- | 0.85 | -4.86 | 0.61 | 1.00 | 0.55 | 4.30 | 0.39 | -- | -- | |
| 0 | 2 | -44542 | 1318 | -980 | 0 | -- | 0.0 | 1.00 | -4.75 | 0.60 | 1.00 | 0.14 | 4.22 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -205364 | 8016 | 2992 | -7315 | 0.0 | 1.5 | 0.87 | -6.12 | 0.76 | 1.00 | 0.24 | 5.25 | 0.14 | -- | -- | |
| ½ | 2 | -883124 | 36320 | 33240 | 2004 | 3.8 | -- | 0.82 | -5.26 | 0.68 | 1.00 | 0.22 | 4.61 | 0.14 | -- | -- | |
| 0 | 2 | -157942 | 7453 | -1143 | -305 | -- | 0.2 | 1.00 | -4.71 | 0.61 | 1.00 | 0.22 | 4.19 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -126633 | 3991 | 6216 | -1197 | 0.0 | 4.2 | 0.80 | -7.43 | 1.00 | 1.00 | 0.23 | 6.23 | 0.11 | -- | -- | |
| ½ | 2 | -364206 | 15819 | 19238 | 2194 | 5.3 | -- | 0.75 | -5.34 | 0.76 | 1.00 | 0.23 | 4.67 | 0.15 | -- | -- | |
| 0 | 2 | -78301 | 5944 | -912 | -226 | -- | 0.3 | 0.99 | -4.60 | 0.66 | 1.00 | 0.35 | 4.11 | 0.25 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -32527 | 5722 | 450 | 0 | 0.0 | 4.1 | 0.74 | -4.79 | 0.70 | 1.00 | 0.84 | 4.25 | 0.59 | -- | -- | |
| ½ | 2 | -155604 | 3365 | 1516 | -0 | 1.0 | -- | 0.81 | -4.58 | 0.61 | 1.00 | 0.10 | 4.10 | 0.07 | -- | -- | |
| 0 | 2 | -29439 | 2364 | -2343 | 0 | -- | 0.0 | 1.00 | -4.34 | 0.57 | 1.00 | 0.35 | 3.91 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -80898 | 3976 | 646 | 2607 | 0.0 | 0.3 | 0.86 | -5.91 | 0.74 | 1.00 | 0.29 | 5.10 | 0.17 | -- | -- | |
| ½ | 2 | -418322 | 3934 | 834 | 9145 | 0.2 | -- | 0.87 | -5.14 | 0.63 | 1.00 | 0.05 | 4.52 | 0.03 | -- | -- | |
| 0 | 2 | -67280 | 527 | -81 | -37 | -- | 0.1 | 1.00 | -4.92 | 0.61 | 1.00 | 0.04 | 4.35 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -96554 | 1566 | -274 | -179 | 0.0 | 2.1 | 0.80 | -6.94 | 0.93 | 1.00 | 0.11 | 5.87 | 0.06 | -- | -- | |
| ½ | 2 | -400727 | 18792 | -197 | -2492 | 0.0 | -- | 0.87 | -5.76 | 0.71 | 1.00 | 0.27 | 4.98 | 0.16 | -- | -- | |
| 0 | 2 | -69844 | 7385 | -99 | 17 | -- | 0.0 | 1.00 | -5.02 | 0.62 | 1.00 | 0.53 | 4.43 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -68840 | 1318 | 2 | -142 | 0.0 | 3.2 | 0.76 | -5.53 | 0.78 | 1.00 | 0.11 | 4.81 | 0.07 | -- | -- | |
| ½ | 2 | -346653 | 32708 | -3399 | -1028 | 1.0 | -- | 0.83 | -5.59 | 0.73 | 1.00 | 0.53 | 4.86 | 0.33 | -- | -- | |
| 0 | 2 | -65755 | 2687 | -200 | -130 | -- | 0.2 | 1.00 | -5.28 | 0.69 | 1.00 | 0.22 | 4.62 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -76333 | 3505 | -1253 | 1053 | 0.0 | 3.8 | 0.74 | -6.21 | 0.89 | 1.00 | 0.29 | 5.32 | 0.16 | -- | -- | |
| ½ | 2 | -285037 | 56475 | -4948 | 2091 | 1.7 | -- | 0.79 | -5.80 | 0.78 | 1.00 | 1.15 | 5.01 | 0.69 | -- | -- | |
| 0 | 2 | -65129 | 13859 | -195 | -118 | -- | 0.2 | 1.00 | -5.30 | 0.72 | 1.00 | 1.13 | 4.64 | 0.73 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -64322 | 1977 | -3105 | -868 | 0.0 | 1.7 | 0.81 | -5.79 | 0.76 | 1.00 | 0.18 | 5.00 | 0.11 | -- | -- | |
| ½ | 2 | -199920 | 15327 | -4432 | 2413 | 2.2 | -- | 0.81 | -4.50 | 0.59 | 1.00 | 0.34 | 4.03 | 0.26 | -- | -- | |
| 0 | 2 | -54575 | 1480 | -686 | 177 | -- | 0.3 | 0.99 | -4.91 | 0.65 | 1.00 | 0.13 | 4.34 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -39354 | 3716 | -239 | 0 | 0.0 | 5.2 | 0.70 | -5.39 | 0.83 | 1.00 | 0.51 | 4.70 | 0.32 | -- | -- | |
| ½ | 2 | -255750 | 126 | 2532 | 48 | 1.0 | -- | 0.79 | -5.57 | 0.75 | 1.00 | 0.00 | 4.84 | 0.00 | -- | -- | |
| 0 | 2 | -40727 | 892 | 2121 | 0 | -- | 0.0 | 1.00 | -5.58 | 0.75 | 1.00 | 0.12 | 4.84 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -93739 | 10148 | -1149 | 6690 | 0.0 | 4.6 | 0.75 | -4.73 | 0.45 | 1.00 | 0.51 | 4.54 | 0.34 | -- | -- | |
| ½ | 2 | -470081 | 60943 | 2145 | -10762 | 0.5 | -- | 0.85 | -4.74 | 0.40 | 1.00 | 0.61 | 4.55 | 0.41 | -- | -- | |
| 0 | 2 | -102423 | 31101 | -7841 | 3871 | -- | 3.8 | 0.94 | -5.17 | 0.46 | 1.00 | 1.57 | 4.86 | 0.97 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -196833 | 13420 | 9552 | 9649 | 0.0 2.4 | 0.85 | -4.77 | 0.60 | 1.00 | 0.33 | 4.24 | 0.23 | -- | -- | |
| ½ | 2 | -911015 | 77997 | 54983 | -10795 | 6.0 -- | 0.76 | -4.42 | 0.62 | 1.00 | 0.38 | 3.97 | 0.29 | -- | -- | |
| 0 | 2 | -168682 | 27132 | 1792 | 1136 | -- 0.7 | 0.99 | -4.09 | 0.58 | 1.00 | 0.66 | 3.73 | 0.53 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -161412 | 1252 | 5321 | 2946 | 0.0 | 1.3 | 0.87 | -6.48 | 0.80 | 1.00 | 0.05 | 5.52 | 0.03 | -- | -- | |
| ½ | 2 | -655657 | 5072 | 40978 | 3307 | 6.2 | -- | 0.77 | -5.26 | 0.74 | 1.00 | 0.04 | 4.61 | 0.03 | -- | -- | |
| 0 | 2 | -108110 | 1572 | 1688 | 186 | -- | 0.2 | 1.00 | -4.34 | 0.61 | 1.00 | 0.06 | 3.91 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -155801 | 8029 | -1663 | -895 | 0.0 | 0.9 | 0.88 | -7.31 | 0.89 | 1.00 | 0.38 | 6.14 | 0.18 | -- | -- | |
| ½ | 2 | -620218 | 40046 | 19446 | 14465 | 3.1 | -- | 0.85 | -5.61 | 0.71 | 1.00 | 0.36 | 4.87 | 0.22 | -- | -- | |
| 0 | 2 | -84738 | 12077 | 1108 | 1152 | -- | 1.4 | 0.97 | -4.54 | 0.59 | 1.00 | 0.65 | 4.07 | 0.48 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -135375 | 15995 | -17410 | -13858 | 0.0 | 0.8 | 0.88 | -4.94 | 0.60 | 1.00 | 0.58 | 4.36 | 0.40 | -- | -- | |
| ½ | 2 | -584541 | 38666 | -5911 | 5866 | 1.0 | -- | 0.90 | -4.26 | 0.51 | 1.00 | 0.28 | 3.86 | 0.22 | -- | -- | |
| 0 | 2 | -124203 | 7779 | -1762 | 760 | -- | 0.6 | 0.99 | -4.53 | 0.54 | 1.00 | 0.28 | 4.06 | 0.21 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -50834 | 4057 | -2908 | -174 | 0.0 | 6.2 | 0.75 | -3.19 | 0.46 | 1.00 | 0.25 | 3.05 | 0.25 | -- | -- | |
| ½ | 2 | -333075 | 23037 | -10255 | -888 | 3.1 | -- | 0.78 | -4.18 | 0.57 | 1.00 | 0.29 | 3.80 | 0.23 | -- | -- | |
| 0 | 2 | -78435 | 3875 | -1769 | -151 | -- | 0.2 | 1.00 | -4.93 | 0.68 | 1.00 | 0.24 | 4.35 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -55503 | 433 | -1849 | -860 | 0.0 | 1.1 | 0.86 | -4.12 | 0.51 | 1.00 | 0.03 | 3.75 | 0.03 | -- | -- | |
| ½ | 2 | -309939 | 22916 | -4355 | 647 | 1.4 | -- | 0.87 | -4.60 | 0.56 | 1.00 | 0.34 | 4.11 | 0.25 | -- | -- | |
| 0 | 2 | -67102 | 6155 | -1252 | 282 | -- | 0.4 | 0.99 | -4.98 | 0.62 | 1.00 | 0.46 | 4.39 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -63707 | 1475 | 2579 | -32 | 0.0 | 3.0 | 0.80 | -4.01 | 0.54 | 1.00 | 0.09 | 3.67 | 0.08 | -- | -- | |
| ½ | 2 | -358905 | 14352 | 25669 | -434 | 7.2 | -- | 0.69 | -4.52 | 0.70 | 1.00 | 0.18 | 4.05 | 0.13 | -- | -- | |
| 0 | 2 | -79807 | 4491 | 915 | -109 | -- | 0.1 | 1.00 | -5.02 | 0.78 | 1.00 | 0.28 | 4.43 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -87842 | 110 | 7294 | -682 | 0.0 | 3.4 | 0.79 | -3.82 | 0.52 | 1.00 | 0.00 | 3.53 | 0.00 | -- | -- | |
| ½ | 2 | -538532 | 10753 | 59536 | 2226 | 11.1 | -- | 0.61 | -4.51 | 0.79 | 1.00 | 0.09 | 4.04 | 0.07 | -- | -- | |
| 0 | 2 | -114809 | 2042 | 1893 | 677 | -- | 0.6 | 0.99 | -4.99 | 0.88 | 1.00 | 0.09 | 4.41 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -111855 | 2556 | 8302 | 7163 | 0.0 | 2.6 | 0.81 | -4.77 | 0.63 | 1.00 | 0.11 | 4.24 | 0.08 | -- | -- | |
| ½ | 2 | -750439 | 50128 | 75040 | 16941 | 10.0 | -- | 0.64 | -5.02 | 0.83 | 1.00 | 0.34 | 4.42 | 0.23 | -- | -- | |
| 0 | 2 | -115241 | 7939 | 1899 | -1304 | -- | 1.1 | 0.98 | -4.91 | 0.83 | 1.00 | 0.34 | 4.35 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -98722 | 1353 | 3555 | 276 | 0.0 | 0.9 | 0.87 | -6.68 | 0.83 | 1.00 | 0.09 | 5.67 | 0.05 | -- | -- | |
| ½ | 2 | -403100 | 7764 | 27212 | -2049 | 6.8 | -- | 0.72 | -5.45 | 0.81 | 1.00 | 0.11 | 4.75 | 0.07 | -- | -- | |
| 0 | 2 | -70557 | 2631 | 842 | 59 | -- | 0.1 | 1.00 | -4.77 | 0.71 | 1.00 | 0.18 | 4.24 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -84729 | 2382 | -1077 | -2285 | 0.0 | 0.2 | 0.89 | -5.18 | 0.63 | 1.00 | 0.15 | 4.55 | 0.10 | -- | -- | |
| ½ | 2 | -536084 | 64925 | -4419 | -14535 | 0.8 | -- | 0.89 | -5.13 | 0.62 | 1.00 | 0.62 | 4.51 | 0.41 | -- | -- | |
| 0 | 2 | -82902 | 10293 | 98 | 531 | -- | 0.6 | 0.99 | -4.95 | 0.60 | 1.00 | 0.61 | 4.37 | 0.42 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -65056 | 2921 | -233 | 1840 | 0.0 | 3.6 | 0.78 | -5.20 | 0.71 | 1.00 | 0.23 | 4.56 | 0.15 | -- | -- | |
| ½ | 2 | -522582 | 48274 | -2592 | 6027 | 0.5 | -- | 0.86 | -4.94 | 0.61 | 1.00 | 0.46 | 4.37 | 0.31 | -- | -- | |
| 0 | 2 | -87435 | 3302 | 466 | 335 | -- | 0.4 | 0.99 | -5.12 | 0.64 | 1.00 | 0.19 | 4.50 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -122247 | 1173 | 181 | 810 | 0.0 | 0.6 | 0.88 | -6.05 | 0.74 | 1.00 | 0.06 | 5.20 | 0.03 | -- | -- | |
| ½ | 2 | -524661 | 7319 | 10141 | -49 | 1.9 | -- | 0.87 | -5.19 | 0.64 | 1.00 | 0.07 | 4.56 | 0.05 | -- | -- | |
| 0 | 2 | -105421 | 2858 | 592 | 143 | -- | 0.1 | 1.00 | -5.22 | 0.65 | 1.00 | 0.14 | 4.57 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -124778 | 1891 | -1484 | 1070 | 0.0 | 0.7 | 0.87 | -6.53 | 0.80 | 1.00 | 0.10 | 5.56 | 0.05 | -- | -- | |
| ½ | 2 | -555986 | 6922 | -4647 | 3189 | 0.8 | -- | 0.89 | -5.82 | 0.70 | 1.00 | 0.07 | 5.03 | 0.04 | -- | -- | |
| 0 | 2 | -101541 | 194 | -1572 | 247 | -- | 0.2 | 1.00 | -5.31 | 0.64 | 1.00 | 0.01 | 4.65 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -169457 | 12006 | 51 | -455 | 0.0 | 0.0 | 0.89 | -7.11 | 0.85 | 1.00 | 0.50 | 5.99 | 0.25 | -- | -- | |
| ½ | 2 | -712127 | 48254 | 13760 | 25942 | 1.9 | -- | 0.88 | -5.98 | 0.73 | 1.00 | 0.40 | 5.14 | 0.24 | -- | -- | |
| 0 | 2 | -124179 | 14295 | 994 | -1300 | -- | 1.0 | 0.99 | -5.21 | 0.65 | 1.00 | 0.60 | 4.57 | 0.39 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -178146 | 10701 | 3348 | 50 | 0.0 | 1.1 | 0.86 | -7.25 | 0.90 | 1.00 | 0.44 | 6.10 | 0.21 | -- | -- | |
| ½ | 2 | -692059 | 48805 | 12786 | 24089 | 1.8 | -- | 0.86 | -5.63 | 0.70 | 1.00 | 0.40 | 4.88 | 0.24 | -- | -- | |
| 0 | 2 | -121253 | 13628 | -2435 | -718 | -- | 0.6 | 0.99 | -4.93 | 0.62 | 1.00 | 0.55 | 4.36 | 0.38 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -112705 | 8801 | 3327 | -6462 | 0.0 | 0.6 | 0.88 | -6.06 | 0.74 | 1.00 | 0.47 | 5.20 | 0.27 | -- | -- | |
| ½ | 2 | -475532 | 22093 | 24016 | 708 | 5.1 | -- | 0.77 | -5.11 | 0.71 | 1.00 | 0.24 | 4.49 | 0.16 | -- | -- | |
| 0 | 2 | -92106 | 6290 | 468 | 873 | -- | 0.9 | 0.98 | -4.95 | 0.70 | 1.00 | 0.34 | 4.37 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -27378 | 2905 | 399 | 0 | 0.0 | 0.3 | 0.88 | -3.28 | 0.40 | 1.00 | 0.35 | 3.12 | 0.33 | -- | -- | |
| ½ | 2 | -177000 | 20861 | -850 | 0 | 0.5 | -- | 0.89 | -4.24 | 0.51 | 1.00 | 0.50 | 3.84 | 0.39 | -- | -- | |
| 0 | 2 | -42603 | 3829 | -913 | 0 | -- | 0.0 | 1.00 | -5.10 | 0.61 | 1.00 | 0.46 | 4.49 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -22728 | 94 | -63 | 0 | 0.0 | 3.6 | 0.72 | -5.43 | 0.54 | 1.00 | 0.02 | 5.06 | 0.01 | -- | -- | |
| ½ | 2 | -131358 | 1205 | 551 | 0 | 0.4 | -- | 0.81 | -6.28 | 0.55 | 1.00 | 0.06 | 5.70 | 0.03 | -- | -- | |
| 0 | 2 | -36045 | 7540 | 1096 | 0 | -- | 0.0 | 1.00 | -8.61 | 0.76 | 1.00 | 1.80 | 7.45 | 0.73 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -61890 | 2885 | -446 | 668 | 0.0 | 2.9 | 0.74 | -4.08 | 0.39 | 1.00 | 0.19 | 4.05 | 0.14 | -- | -- | |
| ½ | 2 | -620992 | 48929 | 6178 | -21632 | 1.0 | -- | 0.80 | -6.83 | 0.61 | 1.00 | 0.54 | 6.11 | 0.26 | -- | -- | |
| 0 | 2 | -148682 | 37510 | 10522 | -25596 | -- | 17.2 | 0.71 | -9.79 | 1.22 | 1.00 | 2.47 | 8.33 | 0.89 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -110683 | 9155 | 146 | 2238 | 0.0 | 3.3 | 0.73 | -5.96 | 0.58 | 1.00 | 0.49 | 5.46 | 0.27 | -- | -- | |
| ½ | 2 | -749587 | 59229 | 10835 | 15226 | 1.4 | -- | 0.78 | -5.86 | 0.54 | 1.00 | 0.46 | 5.39 | 0.26 | -- | -- | |
| 0 | 2 | -111167 | 6413 | 293 | 68 | -- | 0.1 | 1.00 | -5.45 | 0.50 | 1.00 | 0.31 | 5.08 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -128005 | 6249 | -235 | -2062 | 0.0 | 8.5 | 0.60 | -6.53 | 0.78 | 1.00 | 0.32 | 5.89 | 0.16 | -- | -- | |
| ½ | 2 | -834992 | 58714 | 1875 | 13379 | 0.2 | -- | 0.73 | -7.10 | 0.69 | 1.00 | 0.50 | 6.32 | 0.24 | -- | -- | |
| 0 | 2 | -170418 | 13087 | 9000 | 18325 | -- | 10.8 | 0.85 | -8.70 | 1.00 | 1.00 | 0.67 | 7.51 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -164629 | 1641 | -5096 | -1477 | 0.0 | 9.0 | 0.58 | -8.50 | 1.04 | 1.00 | 0.08 | 7.36 | 0.03 | -- | -- | |
| ½ | 2 | -819308 | 10310 | 7326 | 8777 | 0.9 | -- | 0.70 | -7.05 | 0.72 | 1.00 | 0.09 | 6.28 | 0.04 | -- | -- | |
| 0 | 2 | -132206 | 6964 | 4173 | 113 | -- | 0.1 | 1.00 | -6.82 | 0.69 | 1.00 | 0.36 | 6.11 | 0.18 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -113335 | 14359 | 1500 | -1440 | 0.0 | 7.5 | 0.62 | -8.91 | 1.02 | 1.00 | 1.13 | 7.67 | 0.44 | -- | -- | . |
| ½ | 2 | -712231 | 79685 | 1546 | -5371 | 0.2 | -- | 0.75 | -7.49 | 0.71 | 1.00 | 0.84 | 6.61 | 0.38 | -- | -- | |
| 0 | 2 | -150564 | 14915 | 5831 | -3121 | -- | 2.1 | 0.97 | -7.14 | 0.70 | 1.00 | 0.71 | 6.35 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -58883 | 9227 | -75 | 1682 | 0.0 | 4.0 | 0.77 | -5.63 | 0.79 | 1.00 | 0.88 | 4.88 | 0.54 | -- | -- | |
| ½ | 2 | -264220 | 42168 | -4143 | 3934 | 1.6 | -- | 0.82 | -5.05 | 0.66 | 1.00 | 0.81 | 4.45 | 0.54 | -- | -- | |
| 0 | 2 | -52047 | 4781 | -1679 | -40 | -- | 0.1 | 1.00 | -4.98 | 0.65 | 1.00 | 0.46 | 4.39 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -392807 | 44019 | 250 | 3366 | 0.0 | 5.6 | 0.72 | -5.71 | 0.85 | 1.00 | 0.64 | 4.95 | 0.39 | -- | -- | |
| ½ | 2 | -1982409 | 347711 | -96 | 80061 | 0.0 | -- | 0.85 | -5.88 | 0.75 | 1.00 | 1.03 | 5.07 | 0.61 | -- | -- | |
| 0 | 2 | -413405 | 74945 | 2482 | 29444 | -- | 7.1 | 0.97 | -5.83 | 0.76 | 1.00 | 1.06 | 5.03 | 0.63 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -181866 | 1565 | 1504 | 13521 | 0.0 | 6.8 | 0.70 | -8.08 | 0.58 | 1.00 | 0.07 | 4.22 | 0.05 | -- | -- | |
| ½ | 2 | -880897 | 78288 | 7943 | 10232 | 0.9 | -- | 0.80 | -6.61 | 0.41 | 1.00 | 0.59 | 3.63 | 0.48 | -- | -- | |
| 0 | 2 | -144606 | 15365 | -2972 | -426 | -- | 0.3 | 1.00 | -5.86 | 0.37 | 1.00 | 0.62 | 3.33 | 0.56 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 64 Descrizione: Maschio murario n. 64
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -92860 | 45667 | -490 | -87517 | 0.0 | 17.6 | 0.50 | -1.54 | 0.22 | 1.00 | 0.76 | 2.15 | 1.06 | -- | -- | |
| ½ | 2 | -1206185 | 303178 | -34762 | -286111 | 2.9 | -- | 0.63 | -3.99 | 0.45 | 1.00 | 1.00 | 3.98 | 0.76 | -- | -- | |
| 0 | 2 | -354087 | 54819 | -12979 | -18992 | -- | 5.4 | 0.97 | -5.89 | 0.68 | 1.00 | 0.91 | 5.41 | 0.51 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -90711 | 16968 | -720 | 2629 | 0.0 | 4.9 | 0.69 | -4.11 | 0.42 | 1.00 | 0.77 | 4.07 | 0.57 | -- | -- | |
| ½ | 2 | -544397 | 21681 | -1049 | -54201 | 0.2 | -- | 0.81 | -6.16 | 0.54 | 1.00 | 0.25 | 5.61 | 0.13 | -- | -- | |
| 0 | 2 | -143877 | 18482 | -518 | -33706 | -- | 23.4 | 0.72 | -6.51 | 0.80 | 1.00 | 0.84 | 5.88 | 0.43 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -62952 | 20558 | -140 | 2479 | 0.0 | 19.9 | 0.51 | -5.69 | 0.79 | 1.00 | 1.86 | 5.26 | 1.06 | -- | -- | |
| ½ | 2 | -446565 | 19828 | 4439 | 424 | 1.0 | -- | 0.68 | -6.40 | 0.68 | 1.00 | 0.28 | 5.79 | 0.15 | -- | -- | |
| 0 | 2 | -85170 | 18024 | 2550 | -5690 | -- | 6.7 | 0.77 | -7.70 | 1.05 | 1.00 | 1.63 | 6.77 | 0.72 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -193183 | 783 | -4791 | -7805 | 0.0 | 3.8 | 0.75 | -6.30 | 0.60 | 1.00 | 0.03 | 5.71 | 0.01 | -- | -- | |
| ½ | 2 | -1130160 | 76646 | -24579 | -38463 | 2.2 | -- | 0.79 | -6.22 | 0.57 | 1.00 | 0.42 | 5.65 | 0.22 | -- | -- | |
| 0 | 2 | -226847 | 13822 | -5908 | 2114 | -- | 0.9 | 0.99 | -6.65 | 0.61 | 1.00 | 0.41 | 5.98 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -111350 | 15054 | -467 | 2038 | 0.0 | 1.6 | 0.82 | -5.71 | 0.50 | 1.00 | 0.77 | 5.27 | 0.44 | -- | -- | |
| ½ | 2 | -578292 | 74781 | -4317 | 19483 | 0.7 | -- | 0.87 | -5.93 | 0.49 | 1.00 | 0.77 | 5.44 | 0.42 | -- | -- | |
| 0 | 2 | -122106 | 13490 | -6469 | 8480 | -- | 6.9 | 0.89 | -6.26 | 0.58 | 1.00 | 0.69 | 5.69 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -185341 | 18205 | 611 | 1224 | 0.0 | 0.1 | 0.88 | -5.93 | 0.48 | 1.00 | 0.58 | 5.43 | 0.32 | -- | -- | |
| ½ | 2 | -907751 | 115274 | 2246 | -11685 | 0.2 | -- | 0.88 | -5.80 | 0.47 | 1.00 | 0.74 | 5.34 | 0.41 | -- | -- | |
| 0 | 2 | -176917 | 26131 | 889 | 0 | -- | 0.0 | 1.00 | -5.66 | 0.46 | 1.00 | 0.84 | 5.23 | 0.48 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -119070 | 7706 | 520 | 5182 | 0.0 | 2.1 | 0.82 | -5.71 | 0.50 | 1.00 | 0.37 | 5.27 | 0.21 | -- | -- | |
| ½ | 2 | -799440 | 6805 | 1439 | -35720 | 0.2 | -- | 0.88 | -7.13 | 0.58 | 1.00 | 0.06 | 6.34 | 0.03 | -- | -- | |
| 0 | 2 | -155688 | 30042 | -181 | -30650 | -- | 19.7 | 0.71 | -7.47 | 0.84 | 1.00 | 1.44 | 6.59 | 0.66 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -101126 | 9651 | -509 | 642 | 0.0 | 4.6 | 0.70 | -4.14 | 0.42 | 1.00 | 0.40 | 4.10 | 0.29 | -- | -- | |
| ½ | 2 | -478084 | 61205 | 1711 | -2977 | 0.4 | -- | 0.81 | -4.79 | 0.42 | 1.00 | 0.61 | 4.58 | 0.40 | -- | -- | |
| 0 | 2 | -122445 | 20173 | 1422 | 305 | -- | 0.2 | 1.00 | -5.02 | 0.44 | 1.00 | 0.83 | 4.75 | 0.52 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 72 Descrizione: Maschio murario n. 72
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -91513 | 13657 | 618 | -35581 | 0.0 | 11.6 | 0.42 | -6.14 | 0.74 | 1.00 | 0.92 | 3.45 | 0.80 | -- | -- |
| ½ | 2 | -551019 | 28171 | 3813 | -109805 | 0.7 | -- | 0.60 | -8.95 | 0.74 | 1.00 | 0.46 | 4.57 | 0.30 | -- | -- |
| 0 | 2 | -69215 | 5408 | 1044 | -9434 | -- | 13.6 | 0.80 | -4.64 | 0.48 | 1.00 | 0.36 | 2.85 | 0.38 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 73 Descrizione: Maschio murario n. 73
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -93452 | 11883 | 405 | 46397 | 0.0 | 11.6 | 0.42 | -6.26 | 0.75 | 1.00 | 0.80 | 3.50 | 0.68 | -- | -- | |
| ½ | 2 | -374270 | 29903 | 4009 | 88613 | 1.1 | -- | 0.59 | -8.25 | 0.70 | 1.00 | 0.66 | 4.29 | 0.46 | -- | -- | |
| 0 | 2 | -90644 | 9341 | 1888 | 21820 | -- | 24.1 | 0.69 | -6.07 | 0.75 | 1.00 | 0.63 | 3.42 | 0.55 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -72512 | 1100 | 1810 | 1516 | 0.0 | 3.4 | 0.77 | -5.33 | 0.49 | 1.00 | 0.08 | 4.98 | 0.05 | -- | -- |
| ½ | 2 | -508150 | 48800 | 9038 | -5137 | 1.8 | -- | 0.81 | -5.48 | 0.48 | 1.00 | 0.53 | 5.10 | 0.31 | -- | -- |
| 0 | 2 | -86316 | 21274 | 1538 | -8346 | -- | 9.7 | 0.77 | -6.34 | 0.72 | 1.00 | 1.56 | 5.74 | 0.82 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -82909 | 5452 | 210 | -2342 | 0.0 | 2.0 | 0.81 | -5.18 | 0.46 | 1.00 | 0.34 | 4.88 | 0.21 | -- | -- | |
| ½ | 2 | -488221 | 6718 | 10181 | 13380 | 2.1 | -- | 0.82 | -6.27 | 0.54 | 1.00 | 0.09 | 5.69 | 0.05 | -- | -- | |
| 0 | 2 | -113590 | 19550 | 2041 | 15147 | -- | 13.3 | 0.74 | -7.10 | 0.84 | 1.00 | 1.22 | 6.31 | 0.58 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -166371 | 19310 | -707 | 5284 | 0.0 | 1.9 | 0.82 | -4.79 | 0.42 | 1.00 | 0.56 | 4.58 | 0.36 | -- | -- | |
| ½ | 2 | -954139 | 43790 | 3986 | -97785 | 0.4 | -- | 0.88 | -5.49 | 0.45 | 1.00 | 0.25 | 5.11 | 0.15 | -- | -- | |
| 0 | 2 | -208810 | 20982 | -865 | -42589 | -- | 20.4 | 0.81 | -6.01 | 0.60 | 1.00 | 0.60 | 5.50 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -20274 | 3015 | -53 | 0 | 0.0 | 2.5 | 0.80 | -4.20 | 0.38 | 1.00 | 0.63 | 4.14 | 0.45 | -- | -- | |
| ½ | 2 | -113194 | 5420 | -1337 | 0 | 1.2 | -- | 0.85 | -4.69 | 0.40 | 1.00 | 0.22 | 4.51 | 0.15 | -- | -- | |
| 0 | 2 | -24659 | 1615 | -536 | 0 | -- | 0.0 | 1.00 | -5.11 | 0.43 | 1.00 | 0.33 | 4.82 | 0.21 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 78 Descrizione: Maschio murario n. 78 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -24076 | 7713 | -276 | -12660 | 0.0 18.3 | 0.51 | -1.19 | 0.31 | 1.00 | 0.38 | 1.55 | 0.74 | -- | -- | |
| ½ | 2 | -396875 | 4255 | -3829 | -52928 | 0.0 -- | 0.69 | -3.33 | 0.63 | 1.00 | 0.04 | 3.16 | 0.03 | -- | -- | |
| 0 | 2 | -95060 | 10223 | 88 | -1530 | -- 1.6 | 0.97 | -4.71 | 0.92 | 1.00 | 0.51 | 4.19 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 79 Descrizione: Maschio murario n. 79 pilastrone interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -1602 | 0 | -0 | -39 | 0.0 17.1 | 0.50 | -0.07 | 0.02 | 1.00 | 0.00 | 0.72 | 0.00 | -- | -- | |
| ½ | 2 | -257130 | 16059 | -7118 | -13150 | 2.8 -- | 0.63 | -1.94 | 0.33 | 1.00 | 0.12 | 2.12 | 0.17 | -- | -- | |
| 0 | 2 | -73200 | 6133 | -92 | 261 | -- 0.4 | 0.99 | -3.38 | 0.58 | 1.00 | 0.28 | 3.20 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 80 Descrizione: Maschio murario n. 80 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -193792 | 932 | -562 | 10792 | 0.0 | 21.6 | 0.52 | -7.72 | 0.74 | 1.00 | 0.04 | 4.08 | 0.03 | -- | -- | |
| ½ | 2 | -1489710 | 27809 | 875 | 50794 | 0.1 | -- | 0.69 | -9.26 | 0.67 | 1.00 | 0.17 | 4.69 | 0.11 | -- | -- | |
| 0 | 2 | -261560 | 6792 | 3 | 1120 | -- | 0.4 | 0.99 | -10.42 | 0.76 | 1.00 | 0.27 | 5.16 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 81 Descrizione: Maschio murario n. 81 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -21912 | 11531 | 6 | 10142 | 0.0 15.9 | 0.48 | -1.23 | 0.27 | 1.00 | 0.65 | 1.59 | 1.23 | -- | -- | . |
| ½ | 2 | -387787 | 16635 | -3040 | 33616 | 0.8 -- | 0.66 | -3.85 | 0.63 | 1.00 | 0.17 | 3.55 | 0.14 | -- | -- | |
| 0 | 2 | -90444 | 4025 | 225 | 1067 | -- 1.2 | 0.98 | -5.10 | 0.85 | 1.00 | 0.23 | 4.48 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 82 Descrizione: Maschio murario n. 82 interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -25926 | 2817 | 46 | -15667 | 0.0 | 15.3 | 0.47 | -1.54 | 0.42 | 1.00 | 0.17 | 1.81 | 0.28 | -- | -- | |
| ½ | 2 | -332246 | 12247 | 661 | -55807 | 0.0 | -- | 0.67 | -3.30 | 0.65 | 1.00 | 0.12 | 3.13 | 0.12 | -- | -- | |
| 0 | 2 | -74375 | 9349 | -27 | -951 | -- | 1.3 | 0.98 | -4.41 | 0.88 | 1.00 | 0.55 | 3.96 | 0.42 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 83 Descrizione: Maschio murario n. 83 pilastrone interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -1431 | 0 | -0 | 129 | 0.0 | 15.3 | 0.47 | -0.07 | 0.02 | 1.00 | 0.00 | 0.72 | 0.00 | -- | -- | |
| ½ | 2 | -248312 | 12875 | -2945 | -8217 | 1.2 | -- | 0.64 | -2.14 | 0.36 | 1.00 | 0.11 | 2.27 | 0.15 | -- | -- | |
| 0 | 2 | -70280 | 4750 | -38 | 879 | -- | 1.3 | 0.98 | -3.64 | 0.62 | 1.00 | 0.25 | 3.39 | 0.22 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 84 Descrizione: Maschio murario n. 84 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -222624 | 780 | -1729 | 2651 | 0.0 | 22.4 | 0.52 | -8.54 | 0.82 | 1.00 | 0.03 | 4.41 | 0.02 | -- | -- | |
| ½ | 2 | -1685106 | 27733 | -8670 | 49637 | 0.5 | -- | 0.69 | -10.04 | 0.73 | 1.00 | 0.17 | 5.01 | 0.10 | -- | -- | |
| 0 | 2 | -291578 | 6870 | -98 | 4690 | -- | 1.6 | 0.98 | -11.19 | 0.83 | 1.00 | 0.26 | 5.46 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 85 Descrizione: Maschio murario n. 85 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -17646 | 9563 | -158 | 8254 | 0.0 | 16.1 | 0.49 | -1.04 | 0.23 | 1.00 | 0.57 | 1.44 | 1.18 | -- | -- | |
| ½ | 2 | -421305 | 8671 | 1817 | 49665 | 0.4 | -- | 0.67 | -4.28 | 0.69 | 1.00 | 0.09 | 3.87 | 0.07 | -- | -- | |
| 0 | 2 | -91054 | 6166 | 3255 | 1954 | -- | 2.1 | 0.97 | -5.08 | 0.85 | 1.00 | 0.34 | 4.47 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 86 Descrizione: Maschio murario n. 86
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -73205 | 6461 | -78 | -40504 | 0.0 | 11.6 | 0.42 | -4.67 | 0.56 | 1.00 | 0.41 | 2.86 | 0.43 | -- | -- | |
| ½ | 2 | -471787 | 11262 | -5943 | -102648 | 1.3 | -- | 0.59 | -7.47 | 0.64 | 1.00 | 0.18 | 3.98 | 0.13 | -- | -- | |
| 0 | 2 | -73948 | 9291 | -1358 | -7877 | -- | 10.7 | 0.85 | -4.71 | 0.47 | 1.00 | 0.59 | 2.88 | 0.62 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 87 Descrizione: Maschio murario n. 87
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -123441 | 36137 | -188 | -18829 | 0.0 11.6 | 0.42 | -4.19 | 0.50 | 1.00 | 1.23 | 2.66 | 1.38 | -- | -- | |
| ½ | 2 | -777280 | 122543 | -5009 | -34956 | 0.6 -- | 0.60 | -6.34 | 0.52 | 1.00 | 1.00 | 3.53 | 0.85 | -- | -- | |
| 0 | 2 | -165649 | 24786 | -7046 | 5179 | -- 3.1 | 0.98 | -5.62 | 0.48 | 1.00 | 0.84 | 3.24 | 0.78 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 89 Descrizione: Maschio murario n. 89 interrato lato scala
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -10638 | 4546 | 86 | 0 | 0.0 | 10.8 | 0.40 | -4.81 | 0.86 | 1.00 | 2.05 | 4.59 | 1.34 | -- | -- | |
| ½ | 2 | -175168 | 16207 | 388 | -2077 | 0.2 | -- | 0.60 | -5.65 | 0.67 | 1.00 | 0.52 | 5.23 | 0.30 | -- | -- | |
| 0 | 2 | -48307 | 8878 | -2371 | 0 | -- | 0.0 | 1.00 | -10.91 | 1.30 | 1.00 | 2.01 | 9.17 | 0.66 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 90 Descrizione: Maschio murario n. 90 interrato lato scala
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -12584 | 6473 | 80 | 0 | 0.0 | 10.8 | 0.40 | -2.84 | 0.51 | 1.00 | 1.46 | 3.12 | 1.41 | -- | -- | |
| ½ | 2 | -126383 | 8874 | 312 | 0 | 0.2 | -- | 0.60 | -5.71 | 0.68 | 1.00 | 0.40 | 5.27 | 0.23 | -- | -- | |
| 0 | 2 | -41528 | 12061 | -178 | 0 | -- | 0.0 | 1.00 | -9.38 | 1.12 | 1.00 | 2.72 | 8.02 | 1.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 92 Descrizione: Maschio murario n. 92 interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -39304 | 23897 | 408 | 26434 | 0.0 | 16.6 | 0.49 | -1.94 | 0.28 | 1.00 | 1.18 | 2.45 | 1.45 | -- | -- | |
| ½ | 2 | -593977 | 107342 | -1225 | 38608 | 0.2 | -- | 0.67 | -5.33 | 0.57 | 1.00 | 0.96 | 4.99 | 0.58 | -- | -- | |
| 0 | 2 | -151353 | 35327 | 1453 | -35220 | -- | 23.3 | 0.70 | -6.76 | 1.02 | 1.00 | 1.58 | 6.06 | 0.78 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 93 Descrizione: Maschio murario n. 93 interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -31288 | 18175 | 631 | -14728 | 0.0 | 16.6 | 0.49 | -1.59 | 0.23 | 1.00 | 0.92 | 2.18 | 1.27 | -- | -- | |
| ½ | 2 | -436292 | 57144 | 3435 | 11969 | 0.8 | -- | 0.66 | -4.55 | 0.49 | 1.00 | 0.60 | 4.40 | 0.41 | -- | -- | |
| 0 | 2 | -119075 | 23748 | 453 | 27126 | -- | 22.8 | 0.68 | -6.04 | 0.95 | 1.00 | 1.21 | 5.52 | 0.65 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -239859 | 1592 | 11989 | -88 | 0.0 | 0.9 | 0.88 | -6.87 | 0.83 | 1.00 | 0.05 | 5.81 | 0.02 | -- | -- | |
| ½ | 2 | -780057 | 8846 | 41077 | 2642 | 5.3 | -- | 0.79 | -5.58 | 0.75 | 1.00 | 0.06 | 4.85 | 0.04 | -- | -- | |
| 0 | 2 | -164824 | 3224 | -934 | 29 | -- | 0.0 | 1.00 | -4.72 | 0.64 | 1.00 | 0.09 | 4.20 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -147706 | 3483 | 8203 | 415 | 0.0 | 1.1 | 0.88 | -7.19 | 0.88 | 1.00 | 0.17 | 6.05 | 0.08 | -- | -- | |
| ½ | 2 | -440254 | 12748 | 23303 | -3006 | 5.3 | -- | 0.79 | -5.36 | 0.73 | 1.00 | 0.16 | 4.68 | 0.10 | -- | -- | |
| 0 | 2 | -94371 | 3968 | -1410 | 227 | -- | 0.2 | 1.00 | -4.60 | 0.63 | 1.00 | 0.19 | 4.11 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -223339 | 9607 | 10679 | 1287 | 0.0 | 1.3 | 0.87 | -6.32 | 0.78 | 1.00 | 0.27 | 5.40 | 0.15 | -- | -- | |
| ½ | 2 | -728049 | 36395 | 37912 | -16473 | 5.2 | -- | 0.79 | -5.15 | 0.70 | 1.00 | 0.26 | 4.52 | 0.17 | -- | -- | |
| 0 | 2 | -157597 | 10528 | -1251 | 1044 | -- | 0.7 | 0.99 | -4.46 | 0.61 | 1.00 | 0.30 | 4.00 | 0.22 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -128649 | 3366 | 5951 | 635 | 0.0 | 1.1 | 0.88 | -5.97 | 0.73 | 1.00 | 0.16 | 5.13 | 0.09 | -- | -- | |
| ½ | 2 | -397332 | 17043 | 21276 | -4255 | 5.4 | -- | 0.79 | -4.61 | 0.63 | 1.00 | 0.20 | 4.11 | 0.14 | -- | -- | |
| 0 | 2 | -92625 | 3946 | -1593 | 113 | -- | 0.1 | 1.00 | -4.29 | 0.58 | 1.00 | 0.18 | 3.88 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -185215 | 6715 | 6353 | -184 | 0.0 | 1.1 | 0.88 | -5.27 | 0.64 | 1.00 | 0.19 | 4.61 | 0.12 | -- | -- | |
| ½ | 2 | -639890 | 21178 | 35793 | 9709 | 5.6 | -- | 0.78 | -4.55 | 0.62 | 1.00 | 0.15 | 4.07 | 0.11 | -- | -- | |
| 0 | 2 | -155865 | 6336 | -697 | -2095 | -- | 1.3 | 0.99 | -4.43 | 0.62 | 1.00 | 0.18 | 3.99 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -75007 | 1492 | 2079 | -0 | 0.0 | 1.3 | 0.87 | -5.93 | 0.73 | 1.00 | 0.12 | 5.11 | 0.07 | -- | -- | |
| ½ | 2 | -253685 | 41756 | -466 | -1 | 0.2 | -- | 0.90 | -5.02 | 0.59 | 1.00 | 0.83 | 4.42 | 0.56 | -- | -- | |
| 0 | 2 | -58910 | 8334 | 836 | -0 | -- | 0.0 | 1.00 | -4.66 | 0.55 | 1.00 | 0.66 | 4.15 | 0.48 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 10 Descrizione: Maschio murario n. 10 su corso Valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -81387 | 18435 | 1372 | 582 | 0.0 | 8.7 | 0.72 | -4.92 | 0.73 | 1.00 | 1.12 | 4.35 | 0.77 | -- | -- | |
| ½ | 2 | -292132 | 55643 | 718 | 2163 | 0.2 | -- | 0.84 | -4.42 | 0.56 | 1.00 | 0.84 | 3.97 | 0.64 | -- | -- | |
| 0 | 2 | -73216 | 6517 | 805 | 253 | -- | 0.3 | 0.99 | -4.43 | 0.57 | 1.00 | 0.39 | 3.98 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 11 Descrizione: Maschio murario n. 11 su corso Valdocco
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -51433 | 5923 | 803 | 0 | 0.0 0.6 | 0.90 | -4.21 | 0.50 | 1.00 | 0.48 | 3.82 | 0.38 | -- | -- | |
| ½ | 2 | -175740 | 688 | -200 | 0 | 0.1 -- | 0.91 | -3.60 | 0.42 | 1.00 | 0.01 | 3.36 | 0.01 | -- | -- | |
| 0 | 2 | -47524 | 4375 | -1945 | 0 | -- 0.0 | 1.00 | -3.89 | 0.46 | 1.00 | 0.36 | 3.58 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 12 Descrizione: Maschio murario n. 12 su corso Valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -45684 | 5805 | 1784 | 0 | 0.0 | 1.0 | 0.89 | -4.66 | 0.26 | 1.00 | 0.59 | 4.48 | 0.40 | -- | -- | |
| ½ | 2 | -169836 | 16334 | 14 | 17 | 0.0 | -- | 0.91 | -3.65 | 0.20 | 1.00 | 0.35 | 3.72 | 0.28 | -- | -- | |
| 0 | 2 | -37369 | 2487 | -1927 | 0 | -- | 0.0 | 1.00 | -3.81 | 0.21 | 1.00 | 0.25 | 3.85 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 13 Descrizione: Maschio murario n. 13 su corso Valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -94393 | 4343 | 4461 | -1922 | 0.0 | 0.9 | 0.89 | -4.59 | 0.26 | 1.00 | 0.21 | 4.43 | 0.14 | -- | -- | |
| ½ | 2 | -363194 | 1942 | 30407 | -887 | 8.4 | -- | 0.75 | -3.53 | 0.24 | 1.00 | 0.02 | 3.64 | 0.02 | -- | -- | |
| 0 | 2 | -73890 | 979 | 1229 | 39 | -- | 0.1 | 1.00 | -3.59 | 0.24 | 1.00 | 0.05 | 3.69 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 14 Descrizione: Maschio murario n. 14 su corso valdocco
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -87017 | 5575 | 5326 | -2457 | 0.0 | 2.1 | 0.86 | -4.19 | 0.24 | 1.00 | 0.27 | 4.13 | 0.19 | -- | -- | |
| ½ | 2 | -377278 | 528 | 37807 | -213 | 10.0 | -- | 0.70 | -3.23 | 0.23 | 1.00 | 0.00 | 3.41 | 0.00 | -- | -- | |
| 0 | 2 | -74986 | 3384 | -1757 | -52 | -- | 0.1 | 1.00 | -3.61 | 0.26 | 1.00 | 0.16 | 3.70 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 15 Descrizione: Maschio murario n. 15 su corso Valdocco
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -53827 | 7274 | 1924 | 0 | 0.0 2.2 | 0.86 | -4.68 | 0.27 | 1.00 | 0.63 | 4.50 | 0.42 | -- | -- | |
| ½ | 2 | -169091 | 7244 | 828 | 0 | 0.5 -- | 0.91 | -3.67 | 0.20 | 1.00 | 0.16 | 3.74 | 0.13 | -- | -- | |
| 0 | 2 | -38410 | 1219 | -2543 | 0 | -- 0.0 | 1.00 | -3.34 | 0.18 | 1.00 | 0.11 | 3.49 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 16 Descrizione: Maschio murario n. 16 su Via del Carmine
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -64875 | 8188 | 3508 | 0 | 0.0 | 2.8 | 0.85 | -4.87 | 0.61 | 1.00 | 0.61 | 4.31 | 0.43 | -- | -- | |
| ½ | 2 | -198677 | 21967 | 2823 | 0 | 1.4 | -- | 0.88 | -3.73 | 0.45 | 1.00 | 0.41 | 3.45 | 0.36 | -- | -- | |
| 0 | 2 | -45120 | 4144 | -1527 | 0 | -- | 0.0 | 1.00 | -3.38 | 0.41 | 1.00 | 0.31 | 3.20 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 17 Descrizione: Maschio murario n. 17 su via del Carmine
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -88832 | 1017 | 7007 | -1294 | 0.0 | 0.7 | 0.90 | -3.95 | 0.47 | 1.00 | 0.05 | 3.62 | 0.04 | -- | -- | |
| ½ | 2 | -339016 | 21038 | 34629 | -1071 | 10.2 | -- | 0.72 | -3.28 | 0.49 | 1.00 | 0.20 | 3.12 | 0.20 | -- | -- | |
| 0 | 2 | -80262 | 8019 | -1642 | -329 | -- | 0.4 | 0.99 | -3.57 | 0.54 | 1.00 | 0.36 | 3.34 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 18 Descrizione: Maschio murario n. 18 su via del Carmine
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -100958 | 4167 | 7706 | -2880 | 0.0 | 2.4 | 0.86 | -4.43 | 0.55 | 1.00 | 0.18 | 3.98 | 0.14 | -- | -- | |
| ½ | 2 | -337195 | 21698 | 32497 | -1052 | 9.6 | -- | 0.71 | -3.70 | 0.55 | 1.00 | 0.24 | 3.43 | 0.21 | -- | -- | |
| 0 | 2 | -83421 | 6827 | 1469 | 334 | -- | 0.4 | 0.99 | -3.66 | 0.55 | 1.00 | 0.30 | 3.41 | 0.26 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 19 Descrizione: Maschio murario n. 19 su Via Del Carmine
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -65569 | 3912 | 5220 | -396 | 0.0 | 3.3 | 0.84 | -3.46 | 0.44 | 1.00 | 0.21 | 3.25 | 0.19 | -- | -- | |
| ½ | 2 | -272340 | 26638 | 10028 | 1422 | 3.7 | -- | 0.83 | -3.59 | 0.46 | 1.00 | 0.35 | 3.35 | 0.31 | -- | -- | |
| 0 | 2 | -79664 | 332 | 1838 | -193 | -- | 0.2 | 0.99 | -4.20 | 0.54 | 1.00 | 0.02 | 3.81 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -80468 | 2317 | -746 | -2706 | 0.0 | 4.0 | 0.78 | -4.34 | 0.40 | 1.00 | 0.13 | 4.25 | 0.09 | -- | -- | |
| ½ | 2 | -342953 | 15674 | 2860 | -13040 | 0.8 | -- | 0.85 | -4.63 | 0.39 | 1.00 | 0.21 | 4.46 | 0.14 | -- | -- | |
| 0 | 2 | -97232 | 16822 | 247 | -367 | -- | 0.4 | 0.99 | -5.25 | 0.44 | 1.00 | 0.91 | 4.93 | 0.55 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -30469 | 1766 | -808 | 0 | 0.0 | 4.4 | 0.80 | -3.73 | 0.33 | 1.00 | 0.22 | 3.79 | 0.17 | -- | -- | |
| ½ | 2 | -132216 | 5665 | -9404 | 0 | 7.1 | -- | 0.72 | -4.05 | 0.40 | 1.00 | 0.17 | 4.03 | 0.13 | -- | -- | |
| 0 | 2 | -42546 | 306 | -2002 | 0 | -- | 0.0 | 1.00 | -5.21 | 0.52 | 1.00 | 0.04 | 4.90 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -63356 | 1696 | -1884 | -488 | 0.0 2.0 | 0.86 | -3.32 | 0.28 | 1.00 | 0.09 | 3.48 | 0.08 | -- | -- | |
| ½ | 2 | -634338 | 35220 | -19937 | 2503 | 3.1 -- | 0.84 | -4.99 | 0.42 | 1.00 | 0.28 | 4.73 | 0.18 | -- | -- | |
| 0 | 2 | -141905 | 16182 | 461 | 16909 | -- 11.9 | 0.75 | -7.45 | 0.84 | 1.00 | 0.85 | 6.57 | 0.39 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -80751 | 5962 | -348 | 289 | 0.0 | 0.1 | 0.90 | -3.98 | 0.31 | 1.00 | 0.29 | 3.98 | 0.22 | -- | -- | |
| ½ | 2 | -453432 | 17650 | -4051 | -12046 | 0.9 | -- | 0.91 | -5.59 | 0.44 | 1.00 | 0.22 | 5.18 | 0.13 | -- | -- | |
| 0 | 2 | -152435 | 36944 | -252 | -22140 | -- | 14.5 | 0.73 | -7.51 | 0.82 | 1.00 | 1.82 | 6.63 | 0.82 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -168500 | 3234 | 1318 | -1870 | 0.0 2.1 | 0.86 | -4.76 | 0.40 | 1.00 | 0.09 | 4.56 | 0.06 | -- | -- | |
| ½ | 2 | -703993 | 1741 | -1879 | 462 | 0.3 -- | 0.91 | -4.97 | 0.39 | 1.00 | 0.01 | 4.72 | 0.01 | -- | -- | |
| 0 | 2 | -187333 | 3161 | -952 | -1562 | -- 0.8 | 0.99 | -5.29 | 0.42 | 1.00 | 0.09 | 4.96 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -61193 | 13433 | -1232 | -640 | 0.0 | 1.3 | 0.88 | -3.80 | 0.31 | 1.00 | 0.83 | 3.84 | 0.65 | -- | -- | |
| ½ | 2 | -281848 | 44467 | -1085 | -1883 | 0.4 | -- | 0.91 | -4.37 | 0.34 | 1.00 | 0.69 | 4.27 | 0.48 | -- | -- | |
| 0 | 2 | -81367 | 9025 | -902 | -292 | -- | 0.4 | 0.99 | -5.05 | 0.40 | 1.00 | 0.56 | 4.78 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -181667 | 7619 | -3752 | -234 | 0.0 | 1.8 | 0.87 | -3.93 | 0.32 | 1.00 | 0.16 | 3.93 | 0.13 | -- | -- | |
| ½ | 2 | -789149 | 51742 | -6676 | -10918 | 0.8 | -- | 0.90 | -4.26 | 0.34 | 1.00 | 0.28 | 4.19 | 0.20 | -- | -- | |
| 0 | 2 | -223197 | 13260 | -1506 | -2686 | -- | 1.2 | 0.99 | -4.82 | 0.39 | 1.00 | 0.29 | 4.61 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -45282 | 6569 | -122 | 0 | 0.0 | 6.1 | 0.76 | -3.78 | 0.35 | 1.00 | 0.55 | 3.83 | 0.43 | -- | -- | |
| ½ | 2 | -194431 | 16329 | -2623 | 0 | 1.3 | -- | 0.83 | -4.06 | 0.35 | 1.00 | 0.34 | 4.04 | 0.25 | -- | -- | |
| 0 | 2 | -57886 | 3254 | -559 | 0 | -- | 0.0 | 1.00 | -4.84 | 0.41 | 1.00 | 0.27 | 4.62 | 0.18 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -165051 | 3898 | 1223 | -696 | 0.0 | 2.5 | 0.85 | -5.15 | 0.43 | 1.00 | 0.12 | 4.85 | 0.08 | -- | -- | |
| ½ | 2 | -594330 | 15563 | 4320 | 9087 | 0.7 | -- | 0.89 | -4.63 | 0.37 | 1.00 | 0.12 | 4.47 | 0.08 | -- | -- | |
| 0 | 2 | -148398 | 6027 | -451 | -607 | -- | 0.4 | 1.00 | -4.63 | 0.37 | 1.00 | 0.19 | 4.46 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 94 Descrizione: Maschio murario n. 94 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -20673 | 1674 | -16 | -12470 | 0.0 15.6 | 0.48 | -1.20 | 0.33 | 1.00 | 0.10 | 1.56 | 0.19 | -- | -- | |
| ½ | 2 | -335384 | 716 | -177 | -53393 | 0.0 -- | 0.67 | -3.34 | 0.65 | 1.00 | 0.01 | 3.17 | 0.01 | -- | -- | |
| 0 | 2 | -85261 | 13955 | 126 | -457 | -- 0.5 | 0.99 | -4.94 | 0.97 | 1.00 | 0.81 | 4.37 | 0.56 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 95 Descrizione: Maschio murario n. 95 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -1462 | 0 | 0 | 132 | 0.0 | 15.6 | 0.48 | -0.07 | 0.02 | 1.00 | 0.00 | 0.72 | 0.00 | -- | -- | |
| ½ | 2 | -252060 | 13519 | 40 | -8722 | 0.0 | -- | 0.67 | -2.13 | 0.34 | 1.00 | 0.11 | 2.26 | 0.15 | -- | -- | |
| 0 | 2 | -71406 | 4849 | 1 | 880 | -- | 1.2 | 0.98 | -3.62 | 0.59 | 1.00 | 0.25 | 3.37 | 0.22 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 96 Descrizione: Maschio murario n. 96 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -223526 | 839 | -544 | 2588 | 0.0 20.8 | 0.52 | -9.26 | 0.90 | 1.00 | 0.03 | 4.69 | 0.02 | -- | -- | |
| ½ | 2 | -1691349 | 28857 | -3875 | 49790 | 0.2 -- | 0.69 | -10.89 | 0.79 | 1.00 | 0.19 | 5.35 | 0.10 | -- | -- | |
| 0 | 2 | -291795 | 7004 | -38 | 4516 | -- 1.5 | 0.98 | -12.09 | 0.90 | 1.00 | 0.29 | 5.83 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 97 Descrizione: Maschio murario n. 97 interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -12150 | 6029 | 106 | 6899 | 0.0 | 14.3 | 0.46 | -0.81 | 0.19 | 1.00 | 0.40 | 1.27 | 0.95 | -- | -- | |
| ½ | 2 | -402598 | 552 | 2098 | 55785 | 0.5 | -- | 0.65 | -3.64 | 0.60 | 1.00 | 0.00 | 3.39 | 0.00 | -- | -- | |
| 0 | 2 | -76414 | 8128 | -1253 | 1120 | -- | 1.5 | 0.98 | -4.81 | 0.82 | 1.00 | 0.51 | 4.26 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 98 Descrizione: Maschio murario n. 98 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -24523 | 1838 | -215 | -15009 | 0.0 15.8 | 0.48 | -1.41 | 0.38 | 1.00 | 0.11 | 1.72 | 0.18 | -- | -- | |
| ½ | 2 | -296606 | 387 | -1475 | -43772 | 0.0 -- | 0.67 | -3.42 | 0.66 | 1.00 | 0.00 | 3.22 | 0.00 | -- | -- | |
| 0 | 2 | -83184 | 13520 | -339 | -150 | -- 0.2 | 1.00 | -4.77 | 0.93 | 1.00 | 0.78 | 4.24 | 0.55 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 99 Descrizione: Maschio murario n. 99 pilastrone interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -1477 | 0 | -0 | 24 | 0.0 | 15.8 | 0.48 | -0.07 | 0.02 | 1.00 | 0.00 | 0.72 | 0.00 | -- | -- | |
| ½ | 2 | -241604 | 14764 | -969 | -19707 | 0.4 | -- | 0.66 | -2.02 | 0.33 | 1.00 | 0.12 | 2.17 | 0.17 | -- | -- | |
| 0 | 2 | -69885 | 5303 | -15 | 349 | -- | 0.5 | 0.99 | -3.50 | 0.57 | 1.00 | 0.27 | 3.29 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 100 Descrizione: Maschio murario n. 100 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -223482 | 537 | 1586 | -549 | 0.0 22.4 | 0.52 | -8.00 | 0.76 | 1.00 | 0.02 | 4.19 | 0.01 | -- | -- | |
| ½ | 2 | -1713531 | 12611 | 8431 | 14694 | 0.5 -- | 0.69 | -9.57 | 0.70 | 1.00 | 0.07 | 4.82 | 0.04 | -- | -- | |
| 0 | 2 | -299394 | 3869 | 86 | 3254 | -- 1.1 | 0.98 | -10.71 | 0.79 | 1.00 | 0.14 | 5.28 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 101 Descrizione: Maschio murario n. 101 interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -20434 | 8960 | -204 | 10336 | 0.0 | 15.8 | 0.48 | -1.16 | 0.26 | 1.00 | 0.51 | 1.53 | 1.00 | -- | -- | |
| ½ | 2 | -334042 | 1033 | 847 | 23943 | 0.3 | -- | 0.67 | -3.76 | 0.60 | 1.00 | 0.01 | 3.48 | 0.01 | -- | -- | |
| 0 | 2 | -84793 | 6775 | 443 | -124 | -- | 0.1 | 1.00 | -4.83 | 0.78 | 1.00 | 0.39 | 4.28 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 102 Descrizione: Maschio murario n. 102 interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -6324 | 2320 | -43 | 2753 | 0.0 | 11.5 | 0.41 | -0.50 | 0.13 | 1.00 | 0.18 | 1.03 | 0.53 | -- | -- | |
| ½ | 2 | -229958 | 1758 | 375 | 3698 | 0.2 | -- | 0.61 | -3.66 | 0.64 | 1.00 | 0.03 | 3.41 | 0.02 | -- | -- | |
| 0 | 2 | -68401 | 6320 | -114 | -600 | -- | 0.9 | 0.99 | -5.36 | 0.95 | 1.00 | 0.50 | 4.68 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 103 Descrizione: Maschio murario n. 103 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -201566 | 522 | 3145 | -554 | 0.0 | 18.3 | 0.51 | -8.85 | 0.87 | 1.00 | 0.02 | 4.53 | 0.02 | -- | -- | |
| ½ | 2 | -1535895 | 13756 | 10983 | 21500 | 0.7 | -- | 0.68 | -10.53 | 0.78 | 1.00 | 0.09 | 5.20 | 0.05 | -- | -- | |
| 0 | 2 | -267966 | 4126 | 116 | 3299 | -- | 1.2 | 0.98 | -11.77 | 0.89 | 1.00 | 0.18 | 5.70 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 104 Descrizione: Maschio murario n. 104 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -1898 | 0 | -0 | 110 | 0.0 | 20.3 | 0.52 | -0.07 | 0.02 | 1.00 | 0.00 | 0.72 | 0.00 | -- | -- | |
| ½ | 2 | -263726 | 13241 | 7462 | -9260 | 2.8 | -- | 0.65 | -1.72 | 0.28 | 1.00 | 0.09 | 1.95 | 0.13 | -- | -- | |
| 0 | 2 | -76553 | 4916 | 104 | 1082 | -- | 1.4 | 0.98 | -2.99 | 0.50 | 1.00 | 0.19 | 2.90 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 105 Descrizione: Maschio murario n. 105 interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -24941 | 3100 | -318 | -14555 | 0.0 | 20.3 | 0.52 | -1.11 | 0.28 | 1.00 | 0.14 | 1.50 | 0.28 | -- | -- | |
| ½ | 2 | -353999 | 11141 | -2552 | -53351 | 0.0 | -- | 0.69 | -3.18 | 0.60 | 1.00 | 0.10 | 3.04 | 0.10 | -- | -- | |
| 0 | 2 | -101873 | 16432 | -376 | -690 | -- | 0.7 | 0.99 | -4.55 | 0.87 | 1.00 | 0.73 | 4.07 | 0.54 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 106 Descrizione: Maschio murario n. 106 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -28858 | 4273 | -427 | -16669 | 0.0 21.7 | 0.52 | -1.20 | 0.30 | 1.00 | 0.18 | 1.56 | 0.34 | -- | -- | |
| ½ | 2 | -343562 | 13363 | -4156 | -54453 | 0.0 -- | 0.70 | -2.87 | 0.54 | 1.00 | 0.11 | 2.81 | 0.12 | -- | -- | |
| 0 | 2 | -99886 | 16455 | -2000 | -946 | -- 0.9 | 0.98 | -4.16 | 0.79 | 1.00 | 0.68 | 3.78 | 0.54 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 107 Descrizione: Maschio murario n. 107 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -2037 | 0 | 0 | 91 | 0.0 | 21.7 | 0.52 | -0.07 | 0.02 | 1.00 | 0.00 | 0.72 | 0.00 | -- | -- | |
| ½ | 2 | -211567 | 11721 | 19064 | -7866 | 9.0 | -- | 0.57 | -1.28 | 0.24 | 1.00 | 0.07 | 1.62 | 0.13 | -- | -- | |
| 0 | 2 | -64245 | 4756 | 272 | 1399 | -- | 2.2 | 0.97 | -2.34 | 0.46 | 1.00 | 0.17 | 2.41 | 0.22 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 108 Descrizione: Maschio murario n. 108 pilastrone interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -178968 | 322 | 8001 | -1448 | 0.0 | 21.6 | 0.52 | -6.65 | 0.64 | 1.00 | 0.01 | 3.65 | 0.01 | -- | -- | |
| ½ | 2 | -1383961 | 15669 | 30570 | 23690 | 2.2 | -- | 0.66 | -8.03 | 0.61 | 1.00 | 0.09 | 4.20 | 0.06 | -- | -- | |
| 0 | 2 | -245455 | 4508 | 339 | 4010 | -- | 1.6 | 0.98 | -9.12 | 0.71 | 1.00 | 0.17 | 4.64 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 109 Descrizione: Maschio murario n. 109 interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -16744 | 7693 | 45 | 7907 | 0.0 | 14.9 | 0.47 | -1.01 | 0.23 | 1.00 | 0.46 | 1.41 | 0.98 | -- | -- | |
| ½ | 2 | -287848 | 6884 | -158 | 10045 | 0.1 | -- | 0.66 | -3.48 | 0.56 | 1.00 | 0.08 | 3.27 | 0.08 | -- | -- | |
| 0 | 2 | -76344 | 1302 | 554 | 1966 | -- | 2.6 | 0.96 | -4.59 | 0.78 | 1.00 | 0.08 | 4.10 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 110 Descrizione: Maschio murario n. 110 interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -21375 | 9556 | -73 | 9551 | 0.0 | 20.6 | 0.52 | -0.93 | 0.19 | 1.00 | 0.42 | 1.36 | 0.92 | -- | -- | |
| ½ | 2 | -377261 | 9102 | -1614 | 16245 | 0.4 | -- | 0.69 | -3.31 | 0.52 | 1.00 | 0.08 | 3.15 | 0.08 | -- | -- | |
| 0 | 2 | -104429 | 3947 | 907 | 2903 | -- | 2.8 | 0.95 | -4.56 | 0.75 | 1.00 | 0.17 | 4.08 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 111 Descrizione: Maschio murario n. 111 pilastrone interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -141493 | 1930 | -1149 | -7481 | 0.0 | 23.9 | 0.53 | -4.75 | 0.64 | 1.00 | 0.06 | 4.55 | 0.04 | -- | -- |
| ½ | 2 | -1157916 | 7677 | -12060 | 207 | 1.0 | -- | 0.68 | -6.06 | 0.63 | 1.00 | 0.04 | 5.54 | 0.02 | -- | -- |
| 0 | 2 | -212100 | 3419 | -147 | 2584 | -- | 1.2 | 0.98 | -7.12 | 0.76 | 1.00 | 0.11 | 6.33 | 0.05 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -33957 | 3143 | 1062 | 0 | 0.0 | 5.9 | 0.74 | -4.20 | 0.60 | 1.00 | 0.39 | 3.81 | 0.31 | -- | -- | |
| ½ | 2 | -192700 | 32876 | 3921 | 79 | 2.0 | -- | 0.80 | -4.74 | 0.63 | 1.00 | 0.81 | 4.22 | 0.58 | -- | -- | |
| 0 | 2 | -38928 | 6183 | 1358 | 0 | -- | 0.0 | 1.00 | -4.82 | 0.64 | 1.00 | 0.76 | 4.27 | 0.54 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 113 Descrizione: Maschio murario n. 113 interrato
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -18508 | 6024 | 231 | -9452 | 0.0 | 15.8 | 0.48 | -1.06 | 0.29 | 1.00 | 0.35 | 1.46 | 0.71 | -- | -- | |
| ½ | 2 | -242191 | 27068 | 2266 | -39318 | 0.0 | -- | 0.67 | -2.79 | 0.54 | 1.00 | 0.31 | 2.75 | 0.34 | -- | -- | |
| 0 | 2 | -71419 | 13733 | -93 | -1159 | -- | 1.6 | 0.97 | -4.10 | 0.82 | 1.00 | 0.79 | 3.73 | 0.63 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -137884 | 5931 | 2175 | -8875 | 0.0 | 1.5 | 0.86 | -5.09 | 0.63 | 1.00 | 0.22 | 4.48 | 0.15 | -- | -- | |
| ½ | 2 | -657155 | 63983 | 8312 | -1895 | 1.3 | -- | 0.88 | -4.85 | 0.59 | 1.00 | 0.47 | 4.30 | 0.33 | -- | -- | |
| 0 | 2 | -139103 | 14193 | -12 | 1127 | -- | 0.8 | 0.99 | -5.13 | 0.63 | 1.00 | 0.52 | 4.51 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -367958 | 5348 | -614 | 22578 | 0.0 | 3.4 | 0.81 | -5.46 | 0.72 | 1.00 | 0.08 | 4.75 | 0.05 | -- | -- | |
| ½ | 2 | -1796527 | 164498 | -17227 | 26353 | 1.0 | -- | 0.87 | -5.33 | 0.66 | 1.00 | 0.49 | 4.66 | 0.31 | -- | -- | |
| 0 | 2 | -366372 | 41714 | -1458 | -2672 | -- | 0.7 | 1.00 | -5.43 | 0.67 | 1.00 | 0.62 | 4.74 | 0.39 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -183602 | 62 | -1572 | 6937 | 0.0 | 3.9 | 0.78 | -4.86 | 0.44 | 1.00 | 0.00 | 4.63 | 0.00 | -- | -- | |
| ½ | 2 | -1068607 | 31215 | -6345 | 48741 | 0.6 | -- | 0.86 | -7.06 | 0.59 | 1.00 | 0.21 | 6.29 | 0.10 | -- | -- | |
| 0 | 2 | -301246 | 9900 | 938 | -3983 | -- | 1.3 | 0.99 | -7.97 | 0.67 | 1.00 | 0.26 | 6.96 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -50107 | 84 | 114 | 0 | 0.0 | 1.0 | 0.88 | -4.54 | 0.56 | 1.00 | 0.01 | 4.07 | 0.01 | -- | -- | |
| ½ | 2 | -252871 | 36422 | 541 | 0 | 0.2 | -- | 0.90 | -4.58 | 0.55 | 1.00 | 0.66 | 4.10 | 0.48 | -- | -- | |
| 0 | 2 | -58425 | 13260 | -65 | 0 | -- | 0.0 | 1.00 | -5.30 | 0.63 | 1.00 | 1.20 | 4.63 | 0.78 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 118 Descrizione: Maschio murario n. 118 interno
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -74677 | 15304 | 106 | -473 | 0.0 | 4.8 | 0.77 | -5.25 | 0.73 | 1.00 | 1.08 | 4.60 | 0.70 | -- | -- | |
| ½ | 2 | -354232 | 64161 | 740 | 997 | 0.2 | -- | 0.87 | -4.98 | 0.61 | 1.00 | 0.90 | 4.40 | 0.62 | -- | -- | |
| 0 | 2 | -75167 | 17935 | -81 | 287 | -- | 0.4 | 0.99 | -5.29 | 0.66 | 1.00 | 1.26 | 4.63 | 0.82 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -36530 | 11529 | -138 | 0 | 0.0 | 9.2 | 0.68 | -4.80 | 0.76 | 1.00 | 1.52 | 4.26 | 1.07 | -- | -- | |
| ½ | 2 | -192345 | 42838 | -71 | -57 | 0.0 | -- | 0.81 | -4.96 | 0.65 | 1.00 | 1.11 | 4.38 | 0.76 | -- | -- | |
| 0 | 2 | -41380 | 8608 | -65 | 0 | -- | 0.0 | 1.00 | -5.44 | 0.72 | 1.00 | 1.13 | 4.74 | 0.72 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 120 Descrizione: Maschio murario n. 120 verso portico
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -90399 | 19615 | -1603 | 2164 | 0.0 10.9 | 0.66 | -4.50 | 0.49 | 1.00 | 0.98 | 4.37 | 0.67 | -- | -- | |
| ½ | 2 | -557171 | 42574 | 2193 | -15381 | 0.4 -- | 0.79 | -5.63 | 0.51 | 1.00 | 0.43 | 5.21 | 0.25 | -- | -- | |
| 0 | 2 | -123588 | 25325 | -1840 | -17126 | -- 13.9 | 0.74 | -6.15 | 0.75 | 1.00 | 1.26 | 5.61 | 0.67 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 121 Descrizione: Maschio murario n. 121 verso portico
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -111882 | 4723 | 1894 | 6230 | 0.0 | 7.8 | 0.71 | -3.04 | 0.31 | 1.00 | 0.13 | 3.27 | 0.12 | -- | -- |
| ½ | 2 | -1024389 | 30206 | 39806 | 3500 | 3.9 | -- | 0.74 | -5.56 | 0.54 | 1.00 | 0.16 | 5.16 | 0.10 | -- | -- |
| 0 | 2 | -252359 | 9497 | 464 | -17050 | -- | 6.8 | 0.93 | -6.85 | 0.71 | 1.00 | 0.26 | 6.13 | 0.13 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 122 Descrizione: Maschio murario n. 122 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -68631 | 8144 | -77 | -346 | 0.0 | 6.4 | 0.74 | -4.50 | 0.44 | 1.00 | 0.53 | 4.36 | 0.37 | -- | -- | |
| ½ | 2 | -495542 | 22950 | 24854 | 18526 | 5.0 | -- | 0.73 | -6.49 | 0.64 | 1.00 | 0.30 | 5.86 | 0.15 | -- | -- | |
| 0 | 2 | -115454 | 16449 | 172 | 13005 | -- | 11.3 | 0.73 | -7.56 | 1.02 | 1.00 | 1.08 | 6.66 | 0.49 | -- | -- | . |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 123 Descrizione: Maschio murario n. 123 interrato
altezza calcolata: 542.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10477 | 3480 | -116 | -0 | 0.0 | 17.9 | 0.51 | -1.14 | 0.16 | 1.00 | 0.38 | 1.85 | 0.62 | -- | -- | |
| ½ | 2 | -169216 | 3214 | 290 | -4306 | 0.2 | -- | 0.68 | -2.50 | 0.26 | 1.00 | 0.05 | 2.87 | 0.05 | -- | -- | |
| 0 | 2 | -36422 | 3354 | -1349 | -0 | -- | 0.0 | 1.00 | -3.22 | 0.34 | 1.00 | 0.30 | 3.41 | 0.26 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 124 Descrizione: Maschio murario n. 124 verso portico
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -56786 | 10556 | -797 | 50 | 0.0 | 1.0 | 0.87 | -4.54 | 0.37 | 1.00 | 0.84 | 4.39 | 0.58 | -- | -- | |
| ½ | 2 | -477970 | 28197 | 14078 | 17639 | 2.9 | -- | 0.83 | -6.81 | 0.58 | 1.00 | 0.40 | 6.10 | 0.20 | -- | -- | |
| 0 | 2 | -111898 | 18803 | 323 | 13070 | -- | 11.7 | 0.72 | -8.11 | 0.96 | 1.00 | 1.36 | 7.07 | 0.58 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 125 Descrizione: Maschio murario n. 125
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -41543 | 1104 | 99 | 0 | 0.0 | 5.4 | 0.74 | -5.65 | 0.55 | 1.00 | 0.15 | 5.23 | 0.09 | -- | -- | |
| ½ | 2 | -182658 | 21208 | 422 | -0 | 0.2 | -- | 0.85 | -6.22 | 0.52 | 1.00 | 0.72 | 5.65 | 0.38 | -- | -- | |
| 0 | 2 | -41241 | 5688 | 225 | 0 | -- | 0.0 | 1.00 | -5.61 | 0.47 | 1.00 | 0.77 | 5.20 | 0.45 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -83723 | 8276 | -59 | 3899 | 0.0 | 4.7 | 0.76 | -4.94 | 0.47 | 1.00 | 0.49 | 4.69 | 0.31 | -- | -- | |
| ½ | 2 | -385665 | 20759 | 1693 | -8545 | 0.4 | -- | 0.85 | -7.02 | 0.59 | 1.00 | 0.38 | 6.26 | 0.18 | -- | -- | |
| 0 | 2 | -119648 | 22984 | 2166 | -15376 | -- | 12.9 | 0.70 | -8.71 | 1.03 | 1.00 | 1.67 | 7.52 | 0.67 | -- | -- | . |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -89106 | 1729 | -93 | -2779 | 0.0 | 2.0 | 0.84 | -5.19 | 0.44 | 1.00 | 0.10 | 4.88 | 0.06 | -- | -- | |
| ½ | 2 | -453192 | 65704 | 149 | 7354 | 0.0 | -- | 0.90 | -6.60 | 0.53 | 1.00 | 0.96 | 5.94 | 0.48 | -- | -- | |
| 0 | 2 | -148593 | 50295 | 103 | 30560 | -- | 20.6 | 0.65 | -8.66 | 1.06 | 1.00 | 2.93 | 7.48 | 1.17 | -- | -- | . |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 128 Descrizione: Maschio murario n. 128 veso portico
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -78061 | 6431 | 102 | 3269 | 0.0 | 3.7 | 0.79 | -4.66 | 0.42 | 1.00 | 0.38 | 4.48 | 0.26 | -- | -- | |
| ½ | 2 | -479094 | 7386 | -4497 | -24695 | 0.9 | -- | 0.85 | -7.15 | 0.60 | 1.00 | 0.11 | 6.35 | 0.05 | -- | -- | |
| 0 | 2 | -128847 | 24268 | -919 | -21107 | -- | 16.4 | 0.70 | -7.69 | 0.92 | 1.00 | 1.45 | 6.76 | 0.64 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 129 Descrizione: Maschio murario n. 129 interrato
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -20260 | 7524 | -88 | 0 | 0.0 | 17.9 | 0.51 | -1.89 | 0.27 | 1.00 | 0.70 | 2.41 | 0.87 | -- | -- | |
| ½ | 2 | -184353 | 2291 | 11137 | 0 | 6.0 | -- | 0.58 | -3.44 | 0.43 | 1.00 | 0.04 | 3.57 | 0.04 | -- | -- | |
| 0 | 2 | -49022 | 5563 | 480 | 0 | -- | 0.0 | 1.00 | -4.58 | 0.57 | 1.00 | 0.52 | 4.42 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 542.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -79831 | 9672 | -41 | -97 | 0.0 | 6.8 | 0.73 | -4.97 | 0.72 | 1.00 | 0.60 | 4.39 | 0.41 | -- | -- | |
| ½ | 2 | -516518 | 75086 | -2671 | -649 | 0.5 | -- | 0.84 | -5.26 | 0.67 | 1.00 | 0.77 | 4.61 | 0.50 | -- | -- | |
| 0 | 2 | -97829 | 19878 | 731 | -361 | -- | 0.4 | 0.99 | -5.51 | 0.71 | 1.00 | 1.12 | 4.80 | 0.70 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -291304 | 3420 | -4552 | 13105 | 0.0 | 4.9 | 0.78 | -4.79 | 0.66 | 1.00 | 0.06 | 4.25 | 0.04 | -- | -- | |
| ½ | 2 | -1987133 | 31249 | -34687 | 40091 | 1.7 | -- | 0.83 | -5.22 | 0.67 | 1.00 | 0.08 | 4.58 | 0.05 | -- | -- | |
| 0 | 2 | -334372 | 13158 | 3226 | 1248 | -- | 0.4 | 1.00 | -5.49 | 0.71 | 1.00 | 0.22 | 4.78 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 132 Descrizione: Maschio murario n. 132
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -47332 | 7204 | 220 | 0 | 0.0 0.5 | 0.89 | -4.65 | 0.56 | 1.00 | 0.71 | 4.15 | 0.51 | -- | -- | |
| ½ | 2 | -592804 | 4072 | -5436 | -7023 | 0.9 -- | 0.90 | -5.85 | 0.69 | 1.00 | 0.04 | 5.05 | 0.02 | -- | -- | |
| 0 | 2 | -141720 | 24357 | -6046 | 1375 | -- 1.0 | 0.99 | -5.66 | 0.68 | 1.00 | 0.97 | 4.91 | 0.60 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -40132 | 1841 | 430 | -1947 | 0.0 | 21.2 | 0.52 | -4.50 | 0.62 | 1.00 | 0.21 | 4.36 | 0.14 | -- | -- |
| ½ | 2 | -477137 | 24958 | 7825 | 510 | 1.6 | -- | 0.67 | -4.84 | 0.52 | 1.00 | 0.25 | 4.62 | 0.16 | -- | -- |
| 0 | 2 | -108626 | 27837 | 1215 | 5523 | -- | 5.1 | 0.87 | -7.10 | 0.88 | 1.00 | 1.82 | 6.32 | 0.86 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -24511 | 768 | -657 | 0 | 0.0 | 0.2 | 0.89 | -3.73 | 0.37 | 1.00 | 0.12 | 3.80 | 0.09 | -- | -- | |
| ½ | 2 | -130974 | 1695 | -3691 | -639 | 2.8 | -- | 0.86 | -3.77 | 0.39 | 1.00 | 0.05 | 3.83 | 0.04 | -- | -- | |
| 0 | 2 | -45648 | 4988 | -677 | 0 | -- | 0.0 | 1.00 | -5.21 | 0.54 | 1.00 | 0.57 | 4.91 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -180268 | 2072 | -9428 | -4069 | 0.0 | 2.4 | 0.81 | -6.66 | 0.72 | 1.00 | 0.08 | 5.99 | 0.04 | -- | -- | |
| ½ | 2 | -694128 | 2642 | -23717 | -3544 | 3.4 | -- | 0.79 | -6.59 | 0.74 | 1.00 | 0.03 | 5.94 | 0.01 | -- | -- | |
| 0 | 2 | -257702 | 8186 | -2737 | -11271 | -- | 4.4 | 0.96 | -8.00 | 0.94 | 1.00 | 0.25 | 7.00 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -121799 | 1214 | -14680 | -701 | 0.0 | 6.1 | 0.73 | -8.11 | 0.98 | 1.00 | 0.08 | 7.09 | 0.03 | -- | -- | |
| ½ | 2 | -375741 | 218 | -18000 | -1154 | 4.8 | -- | 0.72 | -7.24 | 0.88 | 1.00 | 0.00 | 6.43 | 0.00 | -- | -- | |
| 0 | 2 | -163296 | 2999 | 1106 | -2504 | -- | 1.5 | 0.97 | -9.32 | 1.17 | 1.00 | 0.17 | 7.99 | 0.06 | -- | -- | . |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -213203 | 96 | -17964 | -2268 | 0.0 | 2.3 | 0.81 | -7.54 | 0.82 | 1.00 | 0.00 | 6.66 | 0.00 | -- | -- | |
| ½ | 2 | -807703 | 269 | -26640 | -11235 | 3.3 | -- | 0.79 | -7.38 | 0.82 | 1.00 | 0.00 | 6.53 | 0.00 | -- | -- | |
| 0 | 2 | -293392 | 1639 | 6183 | -1862 | -- | 0.6 | 0.99 | -8.74 | 0.98 | 1.00 | 0.05 | 7.56 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -138227 | 444 | -16096 | -978 | 0.0 | 5.8 | 0.74 | -7.51 | 0.90 | 1.00 | 0.02 | 6.63 | 0.01 | -- | -- | |
| ½ | 2 | -503075 | 538 | -19311 | -5077 | 3.8 | -- | 0.75 | -7.21 | 0.85 | 1.00 | 0.01 | 6.41 | 0.00 | -- | -- | |
| 0 | 2 | -166384 | 3890 | 3986 | 3397 | -- | 2.0 | 0.96 | -8.67 | 1.06 | 1.00 | 0.20 | 7.50 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -199297 | 3441 | -13862 | -32 | 0.0 2.3 | 0.81 | -6.98 | 0.76 | 1.00 | 0.12 | 6.24 | 0.06 | -- | -- | |
| ½ | 2 | -763852 | 7925 | -20121 | -13114 | 2.6 -- | 0.81 | -6.88 | 0.75 | 1.00 | 0.07 | 6.16 | 0.03 | -- | -- | |
| 0 | 2 | -278088 | 11677 | 5483 | 10353 | -- 3.7 | 0.97 | -8.19 | 0.92 | 1.00 | 0.34 | 7.14 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -113251 | 1976 | -6099 | 875 | 0.0 | 4.9 | 0.75 | -6.14 | 0.72 | 1.00 | 0.11 | 5.60 | 0.06 | -- | -- | |
| ½ | 2 | -423317 | 1604 | -8911 | -1279 | 2.1 | -- | 0.80 | -6.03 | 0.67 | 1.00 | 0.02 | 5.52 | 0.01 | -- | -- | |
| 0 | 2 | -151526 | 3998 | 2295 | 7736 | -- | 5.1 | 0.91 | -7.86 | 0.95 | 1.00 | 0.21 | 6.89 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -136135 | 3844 | -1342 | 1719 | 0.0 | 0.5 | 0.87 | -4.82 | 0.49 | 1.00 | 0.14 | 4.62 | 0.09 | -- | -- | |
| ½ | 2 | -547033 | 8905 | -3467 | 21543 | 0.6 | -- | 0.89 | -4.94 | 0.49 | 1.00 | 0.08 | 4.70 | 0.05 | -- | -- | |
| 0 | 2 | -229038 | 8323 | 1936 | -5803 | -- | 2.5 | 0.98 | -6.79 | 0.69 | 1.00 | 0.25 | 6.09 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -59163 | 3318 | -41 | 0 | 0.0 | 5.4 | 0.74 | -5.23 | 0.63 | 1.00 | 0.29 | 4.92 | 0.18 | -- | -- | |
| ½ | 2 | -217781 | 15368 | -2923 | 0 | 1.3 | -- | 0.81 | -6.42 | 0.70 | 1.00 | 0.45 | 5.81 | 0.23 | -- | -- | |
| 0 | 2 | -78500 | 2432 | 2950 | 0 | -- | 0.0 | 1.00 | -6.94 | 0.75 | 1.00 | 0.22 | 6.21 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -64981 | 1448 | -421 | -1413 | 0.0 | 1.7 | 0.79 | -4.29 | 0.71 | 1.00 | 0.10 | 3.88 | 0.07 | -- | -- | |
| ½ | 2 | -213481 | 21240 | -1158 | -4807 | 0.0 | -- | 0.85 | -4.70 | 0.72 | 1.00 | 0.47 | 4.18 | 0.34 | -- | -- | |
| 0 | 2 | -77041 | 8981 | -652 | -2827 | -- | 3.7 | 0.93 | -5.08 | 0.84 | 1.00 | 0.59 | 4.47 | 0.40 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -16663 | 132 | -31 | 0 | 3.2 | 7.2 | 0.78 | -2.40 | 0.40 | 1.00 | 0.02 | 2.46 | 0.02 | -- | -- | |
| ½ | 2 | -95365 | 10645 | -3379 | 0 | 0.0 | -- | 0.88 | -4.57 | 0.68 | 1.00 | 0.51 | 4.09 | 0.37 | -- | -- | |
| 0 | 2 | -28372 | 2538 | -613 | 0 | -- | 0.0 | 1.00 | -4.08 | 0.61 | 1.00 | 0.37 | 3.72 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -64534 | 5075 | -7113 | -2177 | 2.1 1.2 | 0.87 | -3.98 | 0.60 | 1.00 | 0.31 | 3.64 | 0.26 | -- | -- | |
| ½ | 2 | -285881 | 1436 | -17686 | -617 | 0.0 -- | 0.89 | -5.80 | 0.85 | 1.00 | 0.03 | 5.01 | 0.02 | -- | -- | |
| 0 | 2 | -67430 | 393 | -2499 | -78 | -- 0.1 | 1.00 | -4.16 | 0.61 | 1.00 | 0.02 | 3.78 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -65899 | 7610 | -6952 | -1245 | 2.3 | 0.2 | 0.83 | -3.82 | 0.60 | 1.00 | 0.44 | 3.52 | 0.38 | -- | -- | |
| ½ | 2 | -391868 | 11414 | -20265 | -1388 | 0.0 | -- | 0.89 | -6.05 | 0.88 | 1.00 | 0.18 | 5.20 | 0.10 | -- | -- | |
| 0 | 2 | -95221 | 5528 | -1020 | 7217 | -- | 7.6 | 0.85 | -5.51 | 0.95 | 1.00 | 0.32 | 4.79 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -120484 | 3721 | 2139 | 452 | 2.5 | 1.3 | 0.86 | -4.00 | 0.61 | 1.00 | 0.12 | 3.66 | 0.10 | -- | -- | |
| ½ | 2 | -590606 | 27815 | -10291 | 21772 | 0.0 | -- | 0.89 | -5.78 | 0.84 | 1.00 | 0.27 | 4.99 | 0.16 | -- | -- | |
| 0 | 2 | -178253 | 6369 | -576 | -16127 | -- | 9.0 | 0.90 | -5.91 | 0.96 | 1.00 | 0.21 | 5.09 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -51509 | 14200 | -2055 | 0 | 0.0 | 6.7 | 0.74 | -3.27 | 0.39 | 1.00 | 0.90 | 3.45 | 0.78 | -- | -- | |
| ½ | 2 | -330907 | 16371 | -9524 | -2619 | 2.9 | -- | 0.78 | -5.61 | 0.63 | 1.00 | 0.28 | 5.20 | 0.16 | -- | -- | |
| 0 | 2 | -66449 | 10397 | -2805 | 1721 | -- | 2.6 | 0.94 | -4.22 | 0.51 | 1.00 | 0.66 | 4.17 | 0.48 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -165979 | 3148 | -3083 | 10528 | 2.1 | 1.8 | 0.89 | -4.21 | 0.62 | 1.00 | 0.08 | 3.82 | 0.06 | -- | -- | |
| ½ | 2 | -707072 | 19754 | -18412 | 42865 | 0.0 | -- | 0.89 | -5.41 | 0.79 | 1.00 | 0.15 | 4.71 | 0.10 | -- | -- | |
| 0 | 2 | -195747 | 6326 | -6211 | 14199 | -- | 7.3 | 0.94 | -4.94 | 0.77 | 1.00 | 0.16 | 4.37 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -30179 | 1697 | -998 | -0 | 0.0 | 7.4 | 0.71 | -2.69 | 0.33 | 1.00 | 0.15 | 3.02 | 0.15 | -- | -- | |
| ½ | 2 | -214290 | 6786 | -5946 | 0 | 2.8 | -- | 0.77 | -6.37 | 0.73 | 1.00 | 0.20 | 5.78 | 0.10 | -- | -- | |
| 0 | 2 | -62062 | 2366 | -713 | -0 | -- | 0.0 | 1.00 | -5.53 | 0.64 | 1.00 | 0.21 | 5.15 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -127965 | 3973 | -3676 | 14459 | 0.0 | 4.8 | 0.78 | -4.26 | 0.48 | 1.00 | 0.13 | 4.19 | 0.09 | -- | -- | |
| ½ | 2 | -609837 | 25448 | -3834 | 3654 | 0.6 | -- | 0.86 | -5.85 | 0.60 | 1.00 | 0.24 | 5.39 | 0.14 | -- | -- | |
| 0 | 2 | -196611 | 13776 | 569 | -6877 | -- | 3.5 | 0.96 | -6.52 | 0.70 | 1.00 | 0.46 | 5.89 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -19503 | 1593 | 96 | -0 | 3.6 14.1 | 0.54 | -3.24 | 0.53 | 1.00 | 0.27 | 3.43 | 0.23 | -- | -- | |
| ½ | 2 | -113897 | 368 | -64 | -0 | 0.0 -- | 0.70 | -6.32 | 0.80 | 1.00 | 0.02 | 5.74 | 0.01 | -- | -- | |
| 0 | 2 | -46103 | 4092 | 436 | -0 | -- 0.0 | 1.00 | -7.67 | 0.97 | 1.00 | 0.68 | 6.75 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -36145 | 3459 | 136 | 0 | 2.7 | 7.3 | 0.68 | -2.98 | 0.39 | 1.00 | 0.29 | 3.24 | 0.26 | -- | -- | |
| ½ | 2 | -413108 | 7178 | -421 | 3329 | 0.0 | -- | 0.80 | -6.71 | 0.74 | 1.00 | 0.12 | 6.03 | 0.06 | -- | -- | |
| 0 | 2 | -93274 | 7621 | 627 | -761 | -- | 0.8 | 0.98 | -7.70 | 0.86 | 1.00 | 0.63 | 6.78 | 0.28 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -33979 | 155 | -134 | 0 | 0.7 | 4.5 | 0.70 | -3.14 | 0.40 | 1.00 | 0.01 | 3.36 | 0.01 | -- | -- | |
| ½ | 2 | -312375 | 1910 | 43 | 865 | 0.0 | -- | 0.82 | -6.63 | 0.72 | 1.00 | 0.04 | 5.97 | 0.02 | -- | -- | |
| 0 | 2 | -94476 | 391 | -395 | 411 | -- | 0.4 | 0.99 | -7.72 | 0.84 | 1.00 | 0.03 | 6.79 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -40627 | 6518 | 222 | -1570 | 2.6 6.1 | 0.71 | -3.69 | 0.46 | 1.00 | 0.59 | 3.77 | 0.47 | -- | -- | |
| ½ | 2 | -213609 | 17302 | 370 | 78 | 0.0 -- | 0.82 | -5.94 | 0.64 | 1.00 | 0.48 | 5.46 | 0.26 | -- | -- | |
| 0 | 2 | -62351 | 5129 | -132 | -960 | -- 1.5 | 0.96 | -6.05 | 0.68 | 1.00 | 0.50 | 5.54 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -59882 | 1933 | -2427 | 2501 | 2.0 | 3.2 | 0.81 | -4.55 | 0.50 | 1.00 | 0.15 | 4.41 | 0.10 | -- | -- |
| ½ | 2 | -252145 | 9719 | -4993 | -574 | 0.0 | -- | 0.85 | -6.68 | 0.69 | 1.00 | 0.26 | 6.01 | 0.13 | -- | -- |
| 0 | 2 | -62201 | 1586 | -1596 | 2344 | -- | 3.8 | 0.90 | -6.06 | 0.70 | 1.00 | 0.15 | 5.54 | 0.08 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri interni placcati in CA**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **48.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -56178 | 5176 | -1888 | 2920 | 0.0 | 3.9 | 0.72 | -4.74 | 0.41 | 1.00 | 0.44 | 4.55 | 0.29 | -- | -- | |
| ½ | 2 | -277472 | 10395 | -6539 | 314 | 2.4 | -- | 0.75 | -7.94 | 0.66 | 1.00 | 0.30 | 6.96 | 0.13 | -- | -- | |
| 0 | 2 | -75823 | 4941 | -4181 | -5956 | -- | 7.9 | 0.75 | -8.44 | 0.93 | 1.00 | 0.55 | 7.33 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -26871 | 262 | 13 | 0 | 2.9 | 7.8 | 0.69 | -3.92 | 0.51 | 1.00 | 0.04 | 3.94 | 0.03 | -- | -- |
| ½ | 2 | -191169 | 26265 | -884 | -1217 | 0.0 | -- | 0.81 | -6.44 | 0.70 | 1.00 | 0.88 | 5.83 | 0.46 | -- | -- |
| 0 | 2 | -28243 | 5732 | -485 | 0 | -- | 0.0 | 1.00 | -5.03 | 0.55 | 1.00 | 1.02 | 4.77 | 0.64 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -66523 | 5478 | -2578 | -194 | 0.0 | 1.7 | 0.79 | -3.95 | 0.44 | 1.00 | 0.33 | 3.96 | 0.25 | -- | -- | |
| ½ | 2 | -180641 | 11444 | 4340 | 4988 | 2.4 | -- | 0.78 | -4.24 | 0.48 | 1.00 | 0.27 | 4.18 | 0.19 | -- | -- | |
| 0 | 2 | -81626 | 9825 | -1898 | 9100 | -- | 11.1 | 0.81 | -4.85 | 0.67 | 1.00 | 0.58 | 4.64 | 0.38 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -86405 | 6462 | -1199 | 17340 | 3.5 3.5 | 0.89 | -2.96 | 0.43 | 1.00 | 0.22 | 2.88 | 0.23 | -- | -- | |
| ½ | 2 | -534364 | 15412 | 802 | 46344 | 0.0 -- | 0.89 | -4.23 | 0.62 | 1.00 | 0.12 | 3.83 | 0.10 | -- | -- | |
| 0 | 2 | -201945 | 14095 | 7006 | 24628 | -- 12.2 | 0.89 | -5.39 | 0.88 | 1.00 | 0.38 | 4.70 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -96757 | 932 | -5605 | 9995 | 0.0 | 1.6 | 0.85 | -4.75 | 0.49 | 1.00 | 0.05 | 4.56 | 0.03 | -- | -- | |
| ½ | 2 | -482938 | 9442 | -15784 | 117 | 3.3 | -- | 0.81 | -5.81 | 0.63 | 1.00 | 0.11 | 5.36 | 0.06 | -- | -- | |
| 0 | 2 | -170399 | 1376 | 1520 | 4482 | -- | 2.6 | 0.96 | -7.21 | 0.81 | 1.00 | 0.06 | 6.41 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -57483 | 10908 | -6616 | -5248 | 6.0 11.4 | 0.75 | -4.52 | 0.53 | 1.00 | 0.86 | 4.39 | 0.59 | -- | -- | |
| ½ | 2 | -501354 | 2618 | -29553 | 9741 | 0.0 -- | 0.86 | -6.63 | 0.68 | 1.00 | 0.03 | 5.98 | 0.02 | -- | -- | |
| 0 | 2 | -160654 | 8170 | -5108 | -6889 | -- 4.3 | 0.93 | -7.65 | 0.84 | 1.00 | 0.39 | 6.74 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -96989 | 12829 | 517 | 1234 | 0.0 | 3.1 | 0.80 | -3.99 | 0.44 | 1.00 | 0.53 | 3.99 | 0.40 | -- | -- | |
| ½ | 2 | -441744 | 32943 | -22931 | 8413 | 5.2 | -- | 0.74 | -5.70 | 0.68 | 1.00 | 0.42 | 5.27 | 0.24 | -- | -- | |
| 0 | 2 | -146484 | 17762 | -15916 | -13726 | -- | 9.4 | 0.86 | -6.45 | 0.90 | 1.00 | 0.78 | 5.84 | 0.40 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -44108 | 3170 | 1120 | 0 | 2.1 | 1.9 | 0.89 | -3.21 | 0.47 | 1.00 | 0.23 | 3.07 | 0.23 | -- | -- | |
| ½ | 2 | -195622 | 17121 | -3863 | 1211 | 0.0 | -- | 0.89 | -4.41 | 0.65 | 1.00 | 0.39 | 3.97 | 0.29 | -- | -- | |
| 0 | 2 | -41085 | 4201 | -995 | -24 | -- | 0.1 | 1.00 | -3.38 | 0.50 | 1.00 | 0.35 | 3.20 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -51146 | 1998 | -355 | -3109 | 1.8 | 3.6 | 0.83 | -3.09 | 0.48 | 1.00 | 0.12 | 2.98 | 0.12 | -- | -- | |
| ½ | 2 | -139309 | 6247 | -1356 | 2235 | 0.0 | -- | 0.89 | -4.41 | 0.65 | 1.00 | 0.20 | 3.97 | 0.15 | -- | -- | |
| 0 | 2 | -51977 | 2639 | -665 | -419 | -- | 0.8 | 0.98 | -3.86 | 0.58 | 1.00 | 0.20 | 3.55 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -91196 | 4337 | -2195 | 7419 | 0.9 | 6.4 | 0.73 | -2.81 | 0.50 | 1.00 | 0.13 | 2.77 | 0.14 | -- | -- | |
| ½ | 2 | -228494 | 8217 | -1678 | 1001 | 0.0 | -- | 0.85 | -4.77 | 0.73 | 1.00 | 0.17 | 4.24 | 0.12 | -- | -- | |
| 0 | 2 | -52878 | 1667 | 1034 | -1000 | -- | 1.9 | 0.96 | -3.67 | 0.59 | 1.00 | 0.12 | 3.41 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -53074 | 591 | -3985 | -3205 | 4.1 | 7.7 | 0.78 | -2.93 | 0.49 | 1.00 | 0.03 | 2.86 | 0.03 | -- | -- |
| ½ | 2 | -347017 | 8092 | -1843 | 2235 | 0.0 | -- | 0.88 | -4.48 | 0.67 | 1.00 | 0.10 | 4.02 | 0.08 | -- | -- |
| 0 | 2 | -70855 | 117 | 3775 | 48 | -- | 0.1 | 1.00 | -3.67 | 0.55 | 1.00 | 0.01 | 3.41 | 0.01 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -82820 | 1596 | -4369 | 758 | 2.1 | 1.4 | 0.87 | -3.53 | 0.53 | 1.00 | 0.07 | 3.31 | 0.06 | -- | -- | |
| ½ | 2 | -274294 | 13373 | 326 | -8005 | 0.0 | -- | 0.89 | -4.46 | 0.65 | 1.00 | 0.22 | 4.01 | 0.16 | -- | -- | |
| 0 | 2 | -95340 | 6982 | 4496 | 6905 | -- | 7.2 | 0.89 | -4.40 | 0.72 | 1.00 | 0.32 | 3.96 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -39166 | 1590 | -1471 | 423 | 2.9 | 5.2 | 0.82 | -2.65 | 0.42 | 1.00 | 0.11 | 2.65 | 0.12 | -- | -- | |
| ½ | 2 | -262949 | 1117 | -3162 | -2452 | 0.0 | -- | 0.89 | -4.74 | 0.69 | 1.00 | 0.02 | 4.22 | 0.01 | -- | -- | |
| 0 | 2 | -93803 | 1342 | 790 | 1143 | -- | 1.2 | 0.97 | -6.35 | 0.95 | 1.00 | 0.09 | 5.42 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -41252 | 679 | 188 | -458 | 2.8 | 4.0 | 0.85 | -2.46 | 0.38 | 1.00 | 0.04 | 2.51 | 0.05 | -- | -- | |
| ½ | 2 | -243380 | 8858 | -3432 | 4634 | 0.0 | -- | 0.89 | -4.71 | 0.69 | 1.00 | 0.17 | 4.19 | 0.12 | -- | -- | |
| 0 | 2 | -85452 | 5705 | -869 | -3748 | -- | 4.4 | 0.92 | -5.10 | 0.81 | 1.00 | 0.34 | 4.48 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -49938 | 1237 | -17 | 641 | 2.6 | 2.5 | 0.89 | -2.92 | 0.43 | 1.00 | 0.07 | 2.85 | 0.08 | -- | -- | |
| ½ | 2 | -257376 | 13148 | 744 | -2729 | 0.0 | -- | 0.89 | -4.64 | 0.68 | 1.00 | 0.24 | 4.14 | 0.17 | -- | -- | |
| 0 | 2 | -78389 | 9825 | -167 | 3007 | -- | 3.8 | 0.92 | -4.93 | 0.78 | 1.00 | 0.62 | 4.36 | 0.43 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -54629 | 2671 | -141 | 138 | 2.5 | 1.7 | 0.87 | -2.70 | 0.41 | 1.00 | 0.13 | 2.69 | 0.15 | -- | -- | |
| ½ | 2 | -257513 | 3304 | -1420 | -406 | 0.0 | -- | 0.89 | -4.25 | 0.62 | 1.00 | 0.05 | 3.85 | 0.04 | -- | -- | |
| 0 | 2 | -118056 | 1174 | -949 | 1635 | -- | 1.4 | 0.98 | -5.84 | 0.87 | 1.00 | 0.06 | 5.04 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -56570 | 2412 | 55 | -67 | 2.7 | 3.5 | 0.87 | -2.96 | 0.45 | 1.00 | 0.13 | 2.88 | 0.13 | -- | -- | |
| ½ | 2 | -273396 | 1218 | -2525 | 986 | 0.0 | -- | 0.89 | -4.77 | 0.70 | 1.00 | 0.02 | 4.24 | 0.02 | -- | -- | |
| 0 | 2 | -119659 | 1916 | -909 | -485 | -- | 0.4 | 0.99 | -6.26 | 0.92 | 1.00 | 0.10 | 5.36 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -78195 | 6078 | -3641 | -5467 | 0.0 | 4.0 | 0.78 | -4.43 | 0.50 | 1.00 | 0.34 | 4.32 | 0.24 | -- | -- | |
| ½ | 2 | -507816 | 8312 | -18214 | -4104 | 3.6 | -- | 0.77 | -5.57 | 0.64 | 1.00 | 0.09 | 5.18 | 0.05 | -- | -- | |
| 0 | 2 | -164437 | 12000 | -1268 | -8921 | -- | 5.4 | 0.93 | -6.71 | 0.83 | 1.00 | 0.49 | 6.03 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -101389 | 1654 | 318 | 701 | 0.0 | 0.4 | 0.88 | -4.01 | 0.40 | 1.00 | 0.07 | 4.01 | 0.05 | -- | -- | |
| ½ | 2 | -510852 | 2114 | -10582 | -1078 | 2.1 | -- | 0.87 | -5.84 | 0.59 | 1.00 | 0.02 | 5.38 | 0.01 | -- | -- | |
| 0 | 2 | -183776 | 12907 | -412 | -10246 | -- | 5.6 | 0.93 | -7.27 | 0.79 | 1.00 | 0.51 | 6.46 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -91045 | 2944 | -11252 | -1142 | 0.0 | 2.3 | 0.83 | -4.76 | 0.51 | 1.00 | 0.15 | 4.57 | 0.10 | -- | -- | |
| ½ | 2 | -353266 | 19847 | -9181 | 4728 | 2.6 | -- | 0.82 | -6.16 | 0.66 | 1.00 | 0.35 | 5.62 | 0.18 | -- | -- | |
| 0 | 2 | -113227 | 10214 | 1499 | -10183 | -- | 9.0 | 0.83 | -5.92 | 0.76 | 1.00 | 0.53 | 5.44 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -27442 | 1341 | 813 | 0 | 0.0 | 1.9 | 0.84 | -3.20 | 0.34 | 1.00 | 0.16 | 3.40 | 0.14 | -- | -- | |
| ½ | 2 | -112052 | 2155 | -1148 | 0 | 1.0 | -- | 0.88 | -4.35 | 0.44 | 1.00 | 0.08 | 4.26 | 0.06 | -- | -- | |
| 0 | 2 | -26147 | 962 | 659 | 0 | -- | 0.0 | 1.00 | -3.05 | 0.31 | 1.00 | 0.11 | 3.29 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -16053 | 180 | -156 | 0 | 0.0 | 6.3 | 0.68 | -3.47 | 0.67 | 1.00 | 0.04 | 3.27 | 0.04 | -- | -- | |
| ½ | 2 | -47842 | 9542 | -295 | 0 | 0.0 | -- | 0.81 | -5.18 | 0.84 | 1.00 | 1.03 | 4.54 | 0.68 | -- | -- | |
| 0 | 2 | -25795 | 782 | -5 | 0 | -- | 0.0 | 1.00 | -5.58 | 0.90 | 1.00 | 0.17 | 4.85 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -49419 | 8503 | 692 | 1686 | 0.0 | 6.1 | 0.68 | -2.95 | 0.57 | 1.00 | 0.51 | 2.87 | 0.53 | -- | -- | |
| ½ | 2 | -125448 | 4476 | 1086 | 8041 | 0.0 | -- | 0.81 | -3.51 | 0.57 | 1.00 | 0.13 | 3.29 | 0.11 | -- | -- | |
| 0 | 2 | -67481 | 270 | 701 | 5508 | -- | 8.2 | 0.84 | -4.19 | 0.80 | 1.00 | 0.02 | 3.80 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -83574 | 6798 | 729 | 3570 | 0.0 | 2.7 | 0.78 | -3.71 | 0.62 | 1.00 | 0.30 | 3.44 | 0.26 | -- | -- | |
| ½ | 2 | -342667 | 11686 | -1028 | 6568 | 0.0 | -- | 0.87 | -4.74 | 0.71 | 1.00 | 0.16 | 4.22 | 0.12 | -- | -- | |
| 0 | 2 | -123236 | 5976 | -286 | -4417 | -- | 3.6 | 0.95 | -5.47 | 0.86 | 1.00 | 0.27 | 4.77 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -93727 | 12906 | 325 | -475 | 0.0 | 1.4 | 0.84 | -4.04 | 0.43 | 1.00 | 0.56 | 4.03 | 0.41 | -- | -- | |
| ½ | 2 | -270272 | 26184 | -2706 | 9062 | 1.0 | -- | 0.87 | -5.83 | 0.59 | 1.00 | 0.56 | 5.37 | 0.32 | -- | -- | |
| 0 | 2 | -171940 | 887 | -2225 | 13664 | -- | 7.9 | 0.89 | -7.41 | 0.84 | 1.00 | 0.04 | 6.56 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -166766 | 8358 | 993 | 5992 | 0.0 | 5.9 | 0.73 | -6.81 | 0.83 | 1.00 | 0.34 | 6.11 | 0.17 | -- | -- | |
| ½ | 2 | -430810 | 30705 | -677 | 4009 | 0.2 | -- | 0.84 | -7.09 | 0.74 | 1.00 | 0.51 | 6.32 | 0.24 | -- | -- | |
| 0 | 2 | -211205 | 1180 | -5512 | -2296 | -- | 1.1 | 0.99 | -8.62 | 0.91 | 1.00 | 0.05 | 7.47 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -58664 | 9690 | 123 | 0 | 0.0 | 1.7 | 0.84 | -6.94 | 0.72 | 1.00 | 1.15 | 6.21 | 0.55 | -- | -- | |
| ½ | 2 | -156833 | 4500 | 1364 | 0 | 0.9 | -- | 0.89 | -8.05 | 0.80 | 1.00 | 0.23 | 7.04 | 0.10 | -- | -- | |
| 0 | 2 | -136114 | 11845 | 2413 | 2841 | -- | 2.1 | 0.96 | -7.48 | 0.77 | 1.00 | 0.65 | 6.61 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -57916 | 4204 | 109 | -1398 | 0.0 | 8.0 | 0.62 | -6.52 | 0.93 | 1.00 | 0.47 | 5.89 | 0.24 | -- | -- | |
| ½ | 2 | -159109 | 1605 | 389 | -1125 | 0.2 | -- | 0.75 | -6.82 | 0.80 | 1.00 | 0.07 | 6.12 | 0.03 | -- | -- | |
| 0 | 2 | -53501 | 6149 | 792 | -2119 | -- | 4.0 | 0.85 | -7.15 | 0.99 | 1.00 | 0.82 | 6.36 | 0.39 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -296904 | 12066 | -9148 | 71854 | 0.0 | 4.6 | 0.70 | -6.54 | 0.83 | 1.00 | 0.27 | 5.90 | 0.14 | -- | -- | |
| ½ | 2 | -650979 | 28766 | 1725 | 96890 | 0.3 | -- | 0.81 | -6.82 | 0.74 | 1.00 | 0.30 | 6.12 | 0.15 | -- | -- | |
| 0 | 2 | -315457 | 10810 | 108 | 64442 | -- | 20.4 | 0.88 | -6.87 | 0.86 | 1.00 | 0.24 | 6.15 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri interni placcati in CA**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **48.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -207278 | 4398 | -8380 | -1047 | 0.0 | 11.8 | 0.64 | -9.00 | 0.88 | 1.00 | 0.19 | 7.75 | 0.07 | -- | -- | |
| ½ | 2 | -401947 | 10123 | -4155 | 6869 | 1.0 | -- | 0.76 | -8.73 | 0.72 | 1.00 | 0.22 | 7.54 | 0.09 | -- | -- | |
| 0 | 2 | -223113 | 10689 | 1341 | 15333 | -- | 6.9 | 0.89 | -9.69 | 0.90 | 1.00 | 0.46 | 8.27 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -73141 | 5722 | 615 | 1925 | 0.0 | 0.1 | 0.78 | -4.02 | 0.67 | 1.00 | 0.31 | 3.68 | 0.26 | -- | -- | |
| ½ | 2 | -192867 | 24869 | 1240 | 3354 | 0.0 | -- | 0.78 | -4.20 | 0.70 | 1.00 | 0.54 | 3.81 | 0.43 | -- | -- | |
| 0 | 2 | -81161 | 13695 | 50 | 3765 | -- | 4.6 | 0.94 | -4.93 | 0.87 | 1.00 | 0.83 | 4.36 | 0.57 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -28701 | 2817 | 221 | 48 | 0.0 | 1.1 | 0.84 | -4.04 | 0.42 | 1.00 | 0.40 | 4.03 | 0.30 | -- | -- | |
| ½ | 2 | -78165 | 4470 | 838 | 1 | 1.1 | -- | 0.87 | -5.50 | 0.56 | 1.00 | 0.31 | 5.13 | 0.18 | -- | -- | |
| 0 | 2 | -56422 | 7002 | 829 | -935 | -- | 1.7 | 0.93 | -7.95 | 0.87 | 1.00 | 0.99 | 6.96 | 0.43 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -159494 | 18438 | 1037 | -7535 | 0.0 | 6.5 | 0.69 | -4.63 | 0.60 | 1.00 | 0.53 | 4.47 | 0.36 | -- | -- | |
| ½ | 2 | -686513 | 43717 | -2957 | 71726 | 0.4 | -- | 0.80 | -6.06 | 0.67 | 1.00 | 0.39 | 5.55 | 0.21 | -- | -- | |
| 0 | 2 | -235478 | 6267 | -5441 | 27371 | -- | 11.6 | 0.90 | -6.76 | 0.83 | 1.00 | 0.18 | 6.07 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 546.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -86739 | 590 | 9 | 248 | 0.0 | 7.2 | 0.67 | -4.72 | 0.62 | 1.00 | 0.03 | 4.54 | 0.02 | -- | -- |
| ½ | 2 | -349691 | 23008 | -723 | -1279 | 0.2 | -- | 0.80 | -5.58 | 0.62 | 1.00 | 0.37 | 5.18 | 0.21 | -- | -- |
| 0 | 2 | -99740 | 13051 | -838 | 918 | -- | 0.9 | 0.98 | -5.57 | 0.63 | 1.00 | 0.73 | 5.18 | 0.42 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -99919 | 10526 | -1966 | -1085 | 0.0 | 2.9 | 0.78 | -4.47 | 0.50 | 1.00 | 0.47 | 4.35 | 0.32 | -- | -- | |
| ½ | 2 | -308776 | 28457 | -588 | -3264 | 0.2 | -- | 0.87 | -5.08 | 0.52 | 1.00 | 0.47 | 4.81 | 0.29 | -- | -- | |
| 0 | 2 | -115633 | 10887 | -76 | -1973 | -- | 1.7 | 0.97 | -5.71 | 0.60 | 1.00 | 0.54 | 5.28 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -36128 | 166 | -114 | 265 | 0.0 | 9.0 | 0.64 | -3.70 | 0.51 | 1.00 | 0.02 | 3.78 | 0.01 | -- | -- | |
| ½ | 2 | -380394 | 31129 | 3566 | -742 | 0.9 | -- | 0.75 | -5.55 | 0.66 | 1.00 | 0.45 | 5.16 | 0.26 | -- | -- | |
| 0 | 2 | -107603 | 10236 | 611 | 1390 | -- | 1.3 | 0.98 | -5.93 | 0.72 | 1.00 | 0.56 | 5.45 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -62969 | 8045 | 1500 | 666 | 0.0 | 0.3 | 0.77 | -4.08 | 0.69 | 1.00 | 0.52 | 3.72 | 0.42 | -- | -- | |
| ½ | 2 | -224530 | 26067 | 674 | 1004 | 0.0 | -- | 0.78 | -4.70 | 0.78 | 1.00 | 0.55 | 4.18 | 0.39 | -- | -- | |
| 0 | 2 | -92692 | 9574 | 207 | -3638 | -- | 3.9 | 0.95 | -5.16 | 0.90 | 1.00 | 0.53 | 4.53 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -48221 | 10646 | -3070 | -118 | 0.0 | 5.7 | 0.70 | -3.80 | 0.48 | 1.00 | 0.84 | 3.85 | 0.65 | -- | -- | |
| ½ | 2 | -311741 | 33680 | -1070 | 1416 | 0.3 | -- | 0.81 | -5.69 | 0.62 | 1.00 | 0.61 | 5.27 | 0.35 | -- | -- | |
| 0 | 2 | -88959 | 67 | 1757 | -826 | -- | 0.9 | 0.98 | -6.69 | 0.74 | 1.00 | 0.01 | 6.02 | 0.00 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -83201 | 6118 | -4253 | -2867 | 0.0 | 3.0 | 0.78 | -4.30 | 0.49 | 1.00 | 0.32 | 4.23 | 0.22 | -- | -- | |
| ½ | 2 | -184481 | 1224 | 3260 | -2892 | 1.8 | -- | 0.81 | -4.77 | 0.52 | 1.00 | 0.03 | 4.58 | 0.02 | -- | -- | |
| 0 | 2 | -94893 | 2473 | 367 | -249 | -- | 0.3 | 1.00 | -5.67 | 0.62 | 1.00 | 0.15 | 5.25 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -135807 | 4131 | -3035 | -1652 | 0.0 | 4.0 | 0.75 | -3.99 | 0.70 | 1.00 | 0.12 | 3.65 | 0.10 | -- | -- | |
| ½ | 2 | -317094 | 286 | -1685 | 11329 | 0.0 | -- | 0.85 | -4.66 | 0.71 | 1.00 | 0.00 | 4.15 | 0.00 | -- | -- | |
| 0 | 2 | -189054 | 15340 | -2668 | 19409 | -- | 10.3 | 0.91 | -5.55 | 0.93 | 1.00 | 0.45 | 4.82 | 0.28 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -8936 | 458 | -49 | 0 | 0.0 | 3.6 | 0.76 | -3.78 | 0.65 | 1.00 | 0.19 | 3.49 | 0.17 | -- | -- | |
| ½ | 2 | -100383 | 10482 | 288 | -329 | 0.0 | -- | 0.86 | -5.13 | 0.78 | 1.00 | 0.54 | 4.51 | 0.36 | -- | -- | |
| 0 | 2 | -17612 | 3292 | -95 | 0 | -- | 0.0 | 1.00 | -4.97 | 0.75 | 1.00 | 0.93 | 4.38 | 0.64 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -31857 | 5401 | 9 | 0 | 0.0 | 4.1 | 0.71 | -5.17 | 0.64 | 1.00 | 0.88 | 4.88 | 0.54 | -- | -- | |
| ½ | 2 | -133493 | 23117 | 1007 | 0 | 0.8 | -- | 0.80 | -7.22 | 0.80 | 1.00 | 1.25 | 6.41 | 0.58 | -- | -- | |
| 0 | 2 | -31050 | 176 | 357 | 0 | -- | 0.0 | 1.00 | -6.72 | 0.74 | 1.00 | 0.04 | 6.04 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -102964 | 17284 | -6052 | 3647 | 0.0 | 4.7 | 0.69 | -4.98 | 0.64 | 1.00 | 0.84 | 4.74 | 0.53 | -- | -- | |
| ½ | 2 | -359448 | 37329 | -2169 | 1702 | 0.6 | -- | 0.79 | -6.94 | 0.77 | 1.00 | 0.72 | 6.20 | 0.35 | -- | -- | |
| 0 | 2 | -166751 | 17157 | 1635 | -8630 | -- | 5.2 | 0.93 | -8.08 | 0.96 | 1.00 | 0.83 | 7.06 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -256984 | 635 | -1487 | -24105 | 0.0 15.8 | 0.48 | -4.69 | 0.86 | 1.00 | 0.01 | 4.52 | 0.01 | -- | -- | |
| ½ | 2 | -736952 | 13682 | -4453 | 41583 | 0.6 -- | 0.66 | -5.99 | 0.80 | 1.00 | 0.11 | 5.49 | 0.06 | -- | -- | |
| 0 | 2 | -376702 | 5829 | -1294 | 27808 | -- 7.4 | 0.96 | -6.94 | 0.97 | 1.00 | 0.11 | 6.20 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -193368 | 2226 | 7507 | -17438 | 0.0 | 0.4 | 0.83 | -6.19 | 0.65 | 1.00 | 0.07 | 5.64 | 0.04 | -- | -- | |
| ½ | 2 | -819813 | 5150 | 16293 | -25977 | 2.0 | -- | 0.82 | -6.59 | 0.71 | 1.00 | 0.04 | 5.94 | 0.02 | -- | -- | |
| 0 | 2 | -176512 | 102 | -426 | 426 | -- | 0.2 | 1.00 | -5.70 | 0.61 | 1.00 | 0.00 | 5.28 | 0.00 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -55065 | 15253 | 523 | -348 | 0.0 | 0.3 | 0.85 | -5.89 | 0.61 | 1.00 | 1.63 | 5.41 | 0.90 | -- | -- | |
| ½ | 2 | -179913 | 34576 | 1786 | 500 | 1.0 | -- | 0.86 | -7.86 | 0.80 | 1.00 | 1.51 | 6.89 | 0.66 | -- | -- | |
| 0 | 2 | -65439 | 4084 | 294 | 0 | -- | 0.0 | 1.00 | -7.37 | 0.75 | 1.00 | 0.46 | 6.53 | 0.21 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 118 Descrizione: Maschio murario n. 118 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -48617 | 6494 | 387 | -89 | 0.0 | 15.8 | 0.48 | -4.25 | 0.78 | 1.00 | 0.57 | 4.19 | 0.41 | -- | -- | |
| ½ | 2 | -187443 | 37878 | 2264 | -8 | 1.2 | -- | 0.65 | -5.96 | 0.81 | 1.00 | 1.20 | 5.47 | 0.66 | -- | -- | |
| 0 | 2 | -69993 | 17345 | 254 | -926 | -- | 1.3 | 0.97 | -6.12 | 0.86 | 1.00 | 1.52 | 5.59 | 0.81 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -28135 | 1893 | 117 | 0 | 0.0 | 2.8 | 0.77 | -4.60 | 0.53 | 1.00 | 0.31 | 4.45 | 0.21 | -- | -- | |
| ½ | 2 | -97710 | 19896 | 1406 | 0 | 1.4 | -- | 0.81 | -5.32 | 0.58 | 1.00 | 1.08 | 4.99 | 0.65 | -- | -- | |
| 0 | 2 | -24159 | 7401 | -116 | 0 | -- | 0.0 | 1.00 | -5.26 | 0.57 | 1.00 | 1.61 | 4.95 | 0.98 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 120 Descrizione: Maschio murario n. 120 verso portico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -59676 | 2798 | -9 | 5020 | 0.0 | 1.6 | 0.76 | -4.46 | 0.76 | 1.00 | 0.21 | 4.00 | 0.16 | -- | -- | |
| ½ | 2 | -240006 | 3447 | 1175 | 4987 | 0.0 | -- | 0.82 | -5.98 | 0.95 | 1.00 | 0.09 | 5.14 | 0.05 | -- | -- | |
| 0 | 2 | -61720 | 8222 | -1608 | 1793 | -- | 2.9 | 0.94 | -5.17 | 0.87 | 1.00 | 0.69 | 4.53 | 0.46 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 121 Descrizione: Maschio murario n. 121 verso portico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -91836 | 943 | 5807 | -1966 | 0.0 | 3.2 | 0.70 | -3.62 | 0.67 | 1.00 | 0.04 | 3.38 | 0.03 | -- | -- | |
| ½ | 2 | -353385 | 25009 | 7343 | 12084 | 0.0 | -- | 0.81 | -4.67 | 0.75 | 1.00 | 0.33 | 4.16 | 0.24 | -- | -- | |
| 0 | 2 | -102146 | 4235 | 672 | 6833 | -- | 6.7 | 0.94 | -4.08 | 0.70 | 1.00 | 0.17 | 3.72 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 122 Descrizione: Maschio murario n. 122 verso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -23065 | 743 | 306 | 0 | 0.0 | 12.6 | 0.50 | -4.27 | 0.76 | 1.00 | 0.14 | 4.20 | 0.10 | -- | -- | |
| ½ | 2 | -340019 | 17643 | 380 | 645 | 0.1 | -- | 0.67 | -6.59 | 0.87 | 1.00 | 0.34 | 5.94 | 0.17 | -- | -- | |
| 0 | 2 | -65759 | 4546 | -2029 | -4748 | -- | 7.2 | 0.82 | -6.08 | 0.98 | 1.00 | 0.42 | 5.56 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 124 Descrizione: Maschio murario n. 124 verso portico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -63091 | 689 | 271 | 0 | 0.0 | 2.1 | 0.78 | -5.59 | 0.63 | 1.00 | 0.06 | 5.19 | 0.04 | -- | -- | |
| ½ | 2 | -265921 | 12391 | 1607 | 642 | 0.6 | -- | 0.84 | -6.28 | 0.66 | 1.00 | 0.29 | 5.71 | 0.15 | -- | -- | |
| 0 | 2 | -65443 | 6582 | -2139 | -5502 | -- | 8.4 | 0.79 | -5.80 | 0.77 | 1.00 | 0.58 | 5.35 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 125 Descrizione: Maschio murario n. 125
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -29198 | 1116 | 198 | -0 | 0.0 | 2.3 | 0.77 | -4.86 | 0.56 | 1.00 | 0.19 | 4.64 | 0.12 | -- | -- | |
| ½ | 2 | -100104 | 5338 | 802 | 0 | 0.8 | -- | 0.83 | -5.55 | 0.59 | 1.00 | 0.30 | 5.16 | 0.17 | -- | -- | |
| 0 | 2 | -35679 | 246 | 517 | -0 | -- | 0.0 | 1.00 | -5.93 | 0.63 | 1.00 | 0.04 | 5.45 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -63032 | 132 | 493 | 3979 | 0.0 | 1.3 | 0.80 | -4.27 | 0.47 | 1.00 | 0.01 | 4.20 | 0.01 | -- | -- | |
| ½ | 2 | -250889 | 1338 | 2734 | 195 | 1.1 | -- | 0.84 | -5.61 | 0.59 | 1.00 | 0.03 | 5.21 | 0.02 | -- | -- | |
| 0 | 2 | -75830 | 2769 | 1429 | 2983 | -- | 3.9 | 0.93 | -5.14 | 0.59 | 1.00 | 0.19 | 4.85 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -55654 | 7453 | 150 | -3211 | 0.0 | 2.1 | 0.78 | -3.89 | 0.44 | 1.00 | 0.52 | 3.92 | 0.40 | -- | -- | |
| ½ | 2 | -241330 | 3663 | 1100 | 604 | 0.5 | -- | 0.84 | -5.73 | 0.60 | 1.00 | 0.09 | 5.30 | 0.05 | -- | -- | |
| 0 | 2 | -96998 | 7901 | 495 | 4687 | -- | 4.8 | 0.91 | -6.91 | 0.80 | 1.00 | 0.56 | 6.18 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 128 Descrizione: Maschio murario n. 128 veso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -60563 | 15778 | -501 | 10 | 0.0 3.0 | 0.75 | -4.45 | 0.53 | 1.00 | 1.16 | 4.34 | 0.80 | -- | -- | |
| ½ | 2 | -308067 | 48006 | -2070 | 1622 | 0.7 -- | 0.82 | -5.99 | 0.64 | 1.00 | 0.93 | 5.50 | 0.51 | -- | -- | |
| 0 | 2 | -76137 | 14586 | -334 | -41 | -- 0.1 | 1.00 | -5.55 | 0.60 | 1.00 | 1.06 | 5.17 | 0.62 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -60476 | 2486 | 535 | 1961 | 0.0 | 0.6 | 0.83 | -4.66 | 0.50 | 1.00 | 0.19 | 4.49 | 0.13 | -- | -- | |
| ½ | 2 | -133935 | 8297 | 544 | 491 | 0.4 | -- | 0.85 | -5.16 | 0.54 | 1.00 | 0.32 | 4.87 | 0.20 | -- | -- | |
| 0 | 2 | -72928 | 8452 | 233 | -149 | -- | 0.2 | 1.00 | -5.62 | 0.59 | 1.00 | 0.65 | 5.21 | 0.37 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -265608 | 25232 | 13184 | 11836 | 0.0 | 6.1 | 0.66 | -5.78 | 0.77 | 1.00 | 0.55 | 5.34 | 0.31 | -- | -- | |
| ½ | 2 | -643978 | 40489 | 9293 | -46859 | 1.4 | -- | 0.74 | -6.31 | 0.75 | 1.00 | 0.40 | 5.73 | 0.21 | -- | -- | |
| 0 | 2 | -302695 | 10646 | -404 | -43923 | -- | 14.5 | 0.91 | -6.78 | 0.88 | 1.00 | 0.24 | 6.09 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 132 Descrizione: Maschio murario n. 132
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -36266 | 2566 | 377 | 0 | 0.0 | 0.0 | 0.85 | -5.28 | 0.55 | 1.00 | 0.37 | 4.96 | 0.23 | -- | -- | |
| ½ | 2 | -154192 | 6704 | 522 | 0 | 0.3 | -- | 0.85 | -5.61 | 0.58 | 1.00 | 0.24 | 5.21 | 0.14 | -- | -- | |
| 0 | 2 | -66260 | 3637 | 538 | 0 | -- | 0.0 | 1.00 | -7.24 | 0.75 | 1.00 | 0.40 | 6.43 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 546.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -50836 | 3495 | -2726 | -462 | 0.0 | 8.2 | 0.68 | -4.69 | 0.61 | 1.00 | 0.32 | 4.52 | 0.21 | -- | -- | |
| ½ | 2 | -206333 | 22807 | -90 | 679 | 0.0 | -- | 0.81 | -6.34 | 0.69 | 1.00 | 0.70 | 5.76 | 0.37 | -- | -- | |
| 0 | 2 | -72139 | 746 | 676 | -120 | -- | 0.2 | 0.99 | -6.65 | 0.73 | 1.00 | 0.07 | 5.99 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 10 Descrizione: Maschio murario n. 10 su corso Valdocco
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -28754 | 4193 | 135 | 517 | 0.0 | 0.3 | 0.61 | -2.96 | 0.24 | 1.00 | 0.43 | 3.21 | 0.40 | -- | -- | |
| ½ | 2 | -340015 | 13021 | 1178 | 3174 | 0.3 | -- | 0.62 | -5.31 | 0.43 | 1.00 | 0.20 | 4.97 | 0.12 | -- | -- | |
| 0 | 2 | -85332 | 17948 | -42 | -2069 | -- | 2.4 | 0.94 | -9.26 | 0.79 | 1.00 | 1.95 | 7.93 | 0.74 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 11 Descrizione: Maschio murario n. 11 su corso Valdocco
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -27227 | 522 | 2150 | 0 | 0.0 4.4 | 0.60 | -3.03 | 0.25 | 1.00 | 0.06 | 3.26 | 0.05 | -- | -- | |
| ½ | 2 | -358494 | 13058 | -2529 | 0 | 0.7 -- | 0.71 | -6.65 | 0.47 | 1.00 | 0.24 | 5.98 | 0.12 | -- | -- | |
| 0 | 2 | -67956 | 202 | -1348 | 0 | -- 0.0 | 1.00 | -7.57 | 0.53 | 1.00 | 0.02 | 6.66 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 12 Descrizione: Maschio murario n. 12 su corso Valdocco
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -20354 | 2452 | 957 | 0 | 0.0 | 3.0 | 0.64 | -2.82 | 0.22 | 1.00 | 0.34 | 3.11 | 0.33 | -- | -- | |
| ½ | 2 | -300287 | 6427 | -5481 | 597 | 1.8 | -- | 0.70 | -5.99 | 0.43 | 1.00 | 0.13 | 5.49 | 0.07 | -- | -- | |
| 0 | 2 | -64969 | 2909 | 1124 | 0 | -- | 0.0 | 1.00 | -9.01 | 0.65 | 1.00 | 0.40 | 7.75 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 13 Descrizione: Maschio murario n. 13 su corso Valdocco
altezza calcolata: 954.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -39105 | 206 | -2539 | 0 | 0.0 | 2.7 | 0.59 | -2.87 | 0.24 | 1.00 | 0.02 | 3.15 | 0.01 | -- | -- | |
| ½ | 2 | -784573 | 12274 | -15857 | 2 | 2.0 | -- | 0.65 | -7.69 | 0.59 | 1.00 | 0.12 | 6.76 | 0.05 | -- | -- | |
| 0 | 2 | -137079 | 3513 | 6128 | -5243 | -- | 3.8 | 0.92 | -10.08 | 0.84 | 1.00 | 0.26 | 8.55 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 14 Descrizione: Maschio murario n. 14 su corso valdocco
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -44038 | 1282 | -1866 | 477 | 0.0 | 1.6 | 0.63 | -3.20 | 0.25 | 1.00 | 0.09 | 3.39 | 0.08 | -- | -- | |
| ½ | 2 | -747784 | 12057 | -15458 | 15182 | 2.1 | -- | 0.67 | -7.77 | 0.58 | 1.00 | 0.13 | 6.82 | 0.06 | -- | -- | |
| 0 | 2 | -143718 | 4013 | 5592 | -4385 | -- | 3.1 | 0.94 | -10.45 | 0.83 | 1.00 | 0.29 | 8.83 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 15 Descrizione: Maschio murario n. 15 su corso Valdocco
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -24784 | 1858 | 1418 | -425 | 0.0 3.2 | 0.63 | -2.93 | 0.23 | 1.00 | 0.22 | 3.19 | 0.21 | -- | -- | |
| ½ | 2 | -383423 | 18193 | -4606 | -233 | 1.2 -- | 0.71 | -6.31 | 0.44 | 1.00 | 0.30 | 5.72 | 0.16 | -- | -- | |
| 0 | 2 | -66179 | 4 | 811 | 0 | -- 0.0 | 1.00 | -7.82 | 0.55 | 1.00 | 0.00 | 6.85 | 0.00 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 16 Descrizione: Maschio murario n. 16 su Via del Carmine
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -27529 | 1718 | 1788 | -608 | 0.0 | 2.9 | 0.64 | -2.93 | 0.23 | 1.00 | 0.18 | 3.19 | 0.17 | -- | -- | |
| ½ | 2 | -399617 | 7891 | -9866 | -2222 | 2.5 | -- | 0.68 | -6.03 | 0.44 | 1.00 | 0.12 | 5.51 | 0.06 | -- | -- | |
| 0 | 2 | -81010 | 1767 | 2675 | 0 | -- | 0.0 | 1.00 | -8.63 | 0.63 | 1.00 | 0.19 | 7.46 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 17 Descrizione: Maschio murario n. 17 su via del Carmine
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -43003 | 1929 | -2674 | 551 | 0.0 | 1.6 | 0.63 | -3.02 | 0.24 | 1.00 | 0.14 | 3.25 | 0.12 | -- | -- | |
| ½ | 2 | -747723 | 3789 | -19929 | 9728 | 2.7 | -- | 0.65 | -7.48 | 0.58 | 1.00 | 0.04 | 6.60 | 0.02 | -- | -- | |
| 0 | 2 | -144329 | 1757 | 7788 | -1814 | -- | 1.3 | 0.98 | -10.13 | 0.80 | 1.00 | 0.12 | 8.59 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 18 Descrizione: Maschio murario n. 18 su via del Carmine
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -43043 | 362 | -3918 | 0 | 0.0 | 1.2 | 0.64 | -2.98 | 0.23 | 1.00 | 0.03 | 3.22 | 0.02 | -- | -- | |
| ½ | 2 | -814618 | 11140 | -18927 | 0 | 2.3 | -- | 0.67 | -7.52 | 0.56 | 1.00 | 0.10 | 6.63 | 0.05 | -- | -- | |
| 0 | 2 | -143184 | 3257 | 10461 | -4820 | -- | 3.4 | 0.94 | -9.91 | 0.79 | 1.00 | 0.23 | 8.42 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 19 Descrizione: Maschio murario n. 19 su Via Del Carmine
altezza calcolata: 954.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -45332 | 5122 | -982 | 0 | 0.0 | 2.5 | 0.63 | -3.57 | 0.28 | 1.00 | 0.40 | 3.67 | 0.33 | -- | -- | |
| ½ | 2 | -664992 | 23353 | -13969 | 0 | 2.1 | -- | 0.68 | -6.99 | 0.52 | 1.00 | 0.25 | 6.23 | 0.12 | -- | -- | |
| 0 | 2 | -84301 | 834 | 7886 | -6896 | -- | 8.2 | 0.81 | -6.64 | 0.61 | 1.00 | 0.07 | 5.97 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -17432 | 139 | 45 | 0 | 0.0 1.3 | 0.87 | -2.29 | 0.23 | 1.00 | 0.02 | 2.72 | 0.02 | -- | -- | |
| ½ | 2 | -60940 | 2838 | -1053 | -432 | 1.7 -- | 0.87 | -3.78 | 0.38 | 1.00 | 0.18 | 3.84 | 0.14 | -- | -- | |
| 0 | 2 | -28518 | 1109 | 611 | 0 | -- 0.0 | 1.00 | -3.74 | 0.38 | 1.00 | 0.15 | 3.81 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -111564 | 11156 | -13173 | -1095 | 0.0 | 1.8 | 0.86 | -3.86 | 0.39 | 1.00 | 0.39 | 3.89 | 0.30 | -- | -- |
| ½ | 2 | -284060 | 5709 | -959 | -14988 | 0.3 | -- | 0.91 | -4.91 | 0.48 | 1.00 | 0.10 | 4.68 | 0.06 | -- | -- |
| 0 | 2 | -154310 | 2854 | 16850 | -3925 | -- | 2.5 | 0.97 | -5.34 | 0.53 | 1.00 | 0.10 | 5.00 | 0.06 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -64400 | 909 | -11904 | -132 | 0.0 | 2.4 | 0.84 | -4.65 | 0.49 | 1.00 | 0.07 | 4.49 | 0.04 | -- | -- | |
| ½ | 2 | -179045 | 637 | -3762 | -395 | 2.1 | -- | 0.84 | -6.46 | 0.68 | 1.00 | 0.02 | 5.85 | 0.01 | -- | -- | |
| 0 | 2 | -95402 | 319 | 12490 | -563 | -- | 0.6 | 0.99 | -6.89 | 0.73 | 1.00 | 0.02 | 6.17 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -132852 | 8035 | -15851 | -11 | 0.0 | 1.8 | 0.86 | -4.41 | 0.45 | 1.00 | 0.27 | 4.31 | 0.19 | -- | -- | |
| ½ | 2 | -341006 | 3449 | -2260 | 1673 | 0.7 | -- | 0.90 | -5.66 | 0.56 | 1.00 | 0.06 | 5.25 | 0.03 | -- | -- | |
| 0 | 2 | -183294 | 1724 | 18627 | -1737 | -- | 0.9 | 0.99 | -6.09 | 0.60 | 1.00 | 0.06 | 5.57 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -75083 | 9785 | -12390 | 652 | 0.0 | 2.7 | 0.83 | -4.50 | 0.48 | 1.00 | 0.59 | 4.37 | 0.40 | -- | -- | |
| ½ | 2 | -206733 | 1320 | -3662 | 3179 | 1.8 | -- | 0.85 | -6.19 | 0.65 | 1.00 | 0.04 | 5.64 | 0.02 | -- | -- | |
| 0 | 2 | -110461 | 659 | 12654 | 616 | -- | 0.6 | 0.99 | -6.62 | 0.70 | 1.00 | 0.04 | 5.96 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -123685 | 12433 | -15058 | 514 | 0.0 | 1.8 | 0.86 | -4.06 | 0.42 | 1.00 | 0.41 | 4.04 | 0.30 | -- | -- | |
| ½ | 2 | -317892 | 5946 | -2158 | 9566 | 0.7 | -- | 0.90 | -5.22 | 0.51 | 1.00 | 0.10 | 4.91 | 0.06 | -- | -- | |
| 0 | 2 | -171883 | 2971 | 18318 | 744 | -- | 0.4 | 1.00 | -5.64 | 0.56 | 1.00 | 0.10 | 5.23 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -62304 | 8614 | -8689 | -522 | 0.0 | 2.0 | 0.84 | -3.74 | 0.39 | 1.00 | 0.52 | 3.81 | 0.41 | -- | -- | |
| ½ | 2 | -177512 | 5815 | -3370 | 4452 | 1.9 | -- | 0.84 | -5.33 | 0.56 | 1.00 | 0.17 | 5.00 | 0.10 | -- | -- | |
| 0 | 2 | -95828 | 2908 | 7617 | -987 | -- | 1.0 | 0.98 | -5.75 | 0.61 | 1.00 | 0.17 | 5.31 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -80081 | 7207 | -633 | -2016 | 0.0 | 0.3 | 0.91 | -2.64 | 0.26 | 1.00 | 0.24 | 2.98 | 0.24 | -- | -- | |
| ½ | 2 | -236924 | 6354 | -1484 | -7459 | 0.6 | -- | 0.91 | -3.91 | 0.38 | 1.00 | 0.10 | 3.93 | 0.08 | -- | -- | |
| 0 | 2 | -131324 | 3176 | -21 | 22 | -- | 0.0 | 1.00 | -4.34 | 0.42 | 1.00 | 0.10 | 4.25 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -23487 | 7168 | -314 | 0 | 0.0 | 4.7 | 0.75 | -2.41 | 0.28 | 1.00 | 0.73 | 2.80 | 0.79 | -- | -- | |
| ½ | 2 | -75159 | 6007 | -1248 | 0 | 1.7 | -- | 0.81 | -3.85 | 0.42 | 1.00 | 0.31 | 3.89 | 0.24 | -- | -- | |
| 0 | 2 | -48215 | 2576 | 139 | 0 | -- | 0.0 | 1.00 | -4.94 | 0.54 | 1.00 | 0.26 | 4.70 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -36760 | 1981 | 831 | -715 | 0.0 | 2.7 | 0.81 | -2.77 | 0.45 | 1.00 | 0.15 | 2.74 | 0.16 | -- | -- | |
| ½ | 2 | -75486 | 1915 | -583 | -738 | 0.0 | -- | 0.89 | -3.32 | 0.49 | 1.00 | 0.08 | 3.15 | 0.08 | -- | -- | |
| 0 | 2 | -57576 | 2406 | -697 | -237 | -- | 0.4 | 0.99 | -3.80 | 0.56 | 1.00 | 0.16 | 3.51 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10065 | 114 | 56 | 0 | 3.2 | 5.8 | 0.82 | -1.66 | 0.26 | 1.00 | 0.02 | 1.91 | 0.03 | -- | -- | |
| ½ | 2 | -44138 | 3245 | -587 | 0 | 0.0 | -- | 0.90 | -3.64 | 0.53 | 1.00 | 0.27 | 3.39 | 0.24 | -- | -- | |
| 0 | 2 | -26708 | 3733 | 260 | 0 | -- | 0.0 | 1.00 | -4.41 | 0.64 | 1.00 | 0.62 | 3.97 | 0.47 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -28372 | 763 | -463 | 0 | 3.7 | 9.1 | 0.73 | -2.01 | 0.36 | 1.00 | 0.05 | 2.16 | 0.07 | -- | -- | |
| ½ | 2 | -125652 | 174 | 6297 | 0 | 0.0 | -- | 0.85 | -4.44 | 0.68 | 1.00 | 0.01 | 3.99 | 0.00 | -- | -- | |
| 0 | 2 | -69138 | 395 | 8861 | 1170 | -- | 1.7 | 0.97 | -4.89 | 0.77 | 1.00 | 0.03 | 4.33 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -30215 | 3726 | -195 | 0 | 3.6 | 8.5 | 0.75 | -2.01 | 0.35 | 1.00 | 0.25 | 2.17 | 0.34 | -- | -- | |
| ½ | 2 | -135989 | 4866 | 7542 | 0 | 0.0 | -- | 0.86 | -4.52 | 0.68 | 1.00 | 0.16 | 4.05 | 0.12 | -- | -- | |
| 0 | 2 | -74599 | 2281 | 8171 | 2329 | -- | 3.1 | 0.94 | -4.96 | 0.80 | 1.00 | 0.15 | 4.38 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -87751 | 6582 | 3075 | -2671 | 2.4 | 0.1 | 0.83 | -3.34 | 0.52 | 1.00 | 0.25 | 3.16 | 0.24 | -- | -- | |
| ½ | 2 | -256209 | 13403 | -2977 | -6056 | 0.0 | -- | 0.90 | -4.87 | 0.71 | 1.00 | 0.25 | 4.32 | 0.18 | -- | -- | |
| 0 | 2 | -148146 | 8009 | 2203 | 7396 | -- | 5.0 | 0.95 | -5.64 | 0.86 | 1.00 | 0.30 | 4.89 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -34149 | 14297 | -2913 | -0 | 0.0 | 5.4 | 0.77 | -2.46 | 0.28 | 1.00 | 1.03 | 2.85 | 1.09 | -- | -- | |
| ½ | 2 | -143674 | 8355 | -1042 | -0 | 0.7 | -- | 0.85 | -5.19 | 0.54 | 1.00 | 0.30 | 4.89 | 0.19 | -- | -- | |
| 0 | 2 | -77565 | 4178 | 4501 | -0 | -- | 0.0 | 1.00 | -5.60 | 0.58 | 1.00 | 0.30 | 5.20 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -116018 | 5817 | -3782 | 4778 | 2.0 | 2.5 | 0.89 | -3.38 | 0.50 | 1.00 | 0.17 | 3.19 | 0.16 | -- | -- | |
| ½ | 2 | -314057 | 10573 | 268 | -2235 | 0.0 | -- | 0.91 | -4.57 | 0.66 | 1.00 | 0.15 | 4.09 | 0.11 | -- | -- | |
| 0 | 2 | -171212 | 5286 | 6158 | 6053 | -- | 3.5 | 0.97 | -4.99 | 0.74 | 1.00 | 0.15 | 4.40 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -18207 | 2485 | -658 | 0 | 3.7 | 9.1 | 0.73 | -2.05 | 0.36 | 1.00 | 0.28 | 2.20 | 0.38 | -- | -- | |
| ½ | 2 | -97342 | 212 | -1174 | 0 | 0.0 | -- | 0.85 | -5.48 | 0.84 | 1.00 | 0.01 | 4.77 | 0.01 | -- | -- | |
| 0 | 2 | -52339 | 106 | 2565 | 0 | -- | 0.0 | 1.00 | -5.89 | 0.90 | 1.00 | 0.01 | 5.08 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -87111 | 1907 | -2328 | 11185 | 1.9 3.3 | 0.86 | -3.66 | 0.55 | 1.00 | 0.08 | 3.41 | 0.07 | -- | -- | |
| ½ | 2 | -220722 | 2042 | -1271 | -3174 | 0.0 -- | 0.91 | -4.64 | 0.67 | 1.00 | 0.04 | 4.14 | 0.03 | -- | -- | |
| 0 | 2 | -122617 | 8082 | 3281 | -4523 | -- 3.7 | 0.96 | -5.15 | 0.78 | 1.00 | 0.34 | 4.52 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -17767 | 1679 | 87 | 0 | 2.7 | 0.8 | 0.84 | -2.65 | 0.41 | 1.00 | 0.25 | 2.64 | 0.28 | -- | -- | |
| ½ | 2 | -59682 | 1644 | 173 | 0 | 0.0 | -- | 0.91 | -4.44 | 0.64 | 1.00 | 0.12 | 3.99 | 0.09 | -- | -- | |
| 0 | 2 | -34828 | 1190 | 34 | 0 | -- | 0.0 | 1.00 | -5.18 | 0.75 | 1.00 | 0.18 | 4.55 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -24528 | 2694 | 272 | 0 | 2.6 0.2 | 0.83 | -1.81 | 0.29 | 1.00 | 0.20 | 2.02 | 0.30 | -- | -- | |
| ½ | 2 | -175584 | 8549 | -1117 | 1803 | 0.0 -- | 0.90 | -3.99 | 0.58 | 1.00 | 0.19 | 3.65 | 0.16 | -- | -- | |
| 0 | 2 | -49097 | 2053 | 90 | 0 | -- 0.0 | 1.00 | -3.63 | 0.53 | 1.00 | 0.15 | 3.38 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -26083 | 48 | -66 | 0 | 0.8 | 7.9 | 0.69 | -2.16 | 0.41 | 1.00 | 0.00 | 2.28 | 0.01 | -- | -- | |
| ½ | 2 | -193522 | 1168 | -741 | -706 | 0.0 | -- | 0.82 | -3.69 | 0.58 | 1.00 | 0.02 | 3.43 | 0.02 | -- | -- | |
| 0 | 2 | -20665 | 82 | -208 | -0 | -- | 0.0 | 1.00 | -3.16 | 0.50 | 1.00 | 0.01 | 3.03 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -32366 | 2582 | 205 | -891 | 1.9 | 3.9 | 0.84 | -2.63 | 0.41 | 1.00 | 0.21 | 2.63 | 0.24 | -- | -- | |
| ½ | 2 | -160058 | 4268 | 313 | -1586 | 0.0 | -- | 0.91 | -4.66 | 0.67 | 1.00 | 0.12 | 4.16 | 0.09 | -- | -- | |
| 0 | 2 | -52148 | 3047 | 155 | 2218 | -- | 4.3 | 0.90 | -4.23 | 0.68 | 1.00 | 0.25 | 3.84 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -40463 | 2706 | -5368 | 355 | 2.2 | 2.2 | 0.90 | -3.33 | 0.48 | 1.00 | 0.22 | 3.16 | 0.21 | -- | -- | |
| ½ | 2 | -127410 | 1484 | -396 | 1882 | 0.0 | -- | 0.91 | -5.24 | 0.75 | 1.00 | 0.06 | 4.59 | 0.04 | -- | -- | |
| 0 | 2 | -68729 | 744 | 8278 | 432 | -- | 0.6 | 0.99 | -5.65 | 0.83 | 1.00 | 0.06 | 4.90 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -40095 | 6270 | -4778 | 658 | 2.2 | 2.5 | 0.89 | -3.65 | 0.53 | 1.00 | 0.57 | 3.39 | 0.50 | -- | -- | |
| ½ | 2 | -124869 | 3097 | -907 | -1412 | 0.0 | -- | 0.91 | -5.68 | 0.82 | 1.00 | 0.14 | 4.92 | 0.09 | -- | -- | |
| 0 | 2 | -66977 | 1548 | 7767 | 875 | -- | 1.3 | 0.97 | -6.09 | 0.91 | 1.00 | 0.14 | 5.23 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -21010 | 16 | -149 | 0 | 2.3 | 1.6 | 0.88 | -2.91 | 0.43 | 1.00 | 0.00 | 2.84 | 0.00 | -- | -- | |
| ½ | 2 | -76761 | 1012 | -742 | -113 | 0.0 | -- | 0.91 | -5.00 | 0.72 | 1.00 | 0.07 | 4.41 | 0.04 | -- | -- | |
| 0 | 2 | -38785 | 159 | 1162 | 0 | -- | 0.0 | 1.00 | -5.37 | 0.77 | 1.00 | 0.02 | 4.69 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -60592 | 130 | 104 | -1946 | 0.0 | 2.1 | 0.80 | -4.05 | 0.66 | 1.00 | 0.01 | 3.70 | 0.01 | -- | -- | |
| ½ | 2 | -78677 | 7309 | -1353 | 2880 | 0.0 | -- | 0.89 | -5.26 | 0.77 | 1.00 | 0.49 | 4.60 | 0.32 | -- | -- | |
| 0 | 2 | -83436 | 7309 | -4975 | -3503 | -- | 4.2 | 0.93 | -5.58 | 0.88 | 1.00 | 0.49 | 4.84 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -103894 | 3799 | -4102 | 7892 | 1.6 | 5.4 | 0.77 | -3.47 | 0.59 | 1.00 | 0.13 | 3.26 | 0.12 | -- | -- |
| ½ | 2 | -113425 | 3798 | 36 | 4098 | 0.0 | -- | 0.87 | -3.79 | 0.57 | 1.00 | 0.13 | 3.50 | 0.11 | -- | -- |
| 0 | 2 | -122945 | 3798 | 4174 | -159 | -- | 0.1 | 1.00 | -4.11 | 0.61 | 1.00 | 0.13 | 3.74 | 0.10 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -96620 | 506 | -8310 | 1828 | 1.5 | 6.1 | 0.74 | -5.34 | 0.94 | 1.00 | 0.03 | 4.67 | 0.02 | -- | -- | |
| ½ | 2 | -102372 | 507 | -837 | 1095 | 0.0 | -- | 0.86 | -5.66 | 0.86 | 1.00 | 0.03 | 4.91 | 0.02 | -- | -- | |
| 0 | 2 | -108128 | 507 | 6636 | 513 | -- | 0.5 | 0.99 | -5.98 | 0.92 | 1.00 | 0.03 | 5.14 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -100801 | 1556 | -10854 | 1201 | 0.0 7.2 | 0.69 | -6.17 | 0.79 | 1.00 | 0.10 | 5.63 | 0.05 | -- | -- | |
| ½ | 2 | -106002 | 1589 | 1240 | 2470 | 1.2 -- | 0.78 | -6.49 | 0.73 | 1.00 | 0.10 | 5.87 | 0.05 | -- | -- | |
| 0 | 2 | -111200 | 1743 | 13341 | 4496 | -- 4.0 | 0.93 | -6.81 | 0.82 | 1.00 | 0.11 | 6.11 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -85744 | 3159 | -2036 | 2463 | 1.6 5.1 | 0.78 | -4.31 | 0.72 | 1.00 | 0.16 | 3.89 | 0.12 | -- | -- | |
| ½ | 2 | -92087 | 3154 | 3005 | 5385 | 0.0 -- | 0.88 | -4.63 | 0.69 | 1.00 | 0.16 | 4.13 | 0.12 | -- | -- | |
| 0 | 2 | -98414 | 3146 | 8043 | 8749 | -- 8.9 | 0.88 | -4.94 | 0.84 | 1.00 | 0.16 | 4.37 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -19922 | 165 | -70 | 0 | 6.7 5.3 | 0.85 | -3.45 | 0.53 | 1.00 | 0.03 | 3.25 | 0.03 | -- | -- | |
| ½ | 2 | -79703 | 641 | -623 | 0 | 0.0 -- | 0.90 | -3.45 | 0.50 | 1.00 | 0.03 | 3.25 | 0.03 | -- | -- | |
| 0 | 2 | -46763 | 632 | 2100 | 0 | -- 0.0 | 1.00 | -4.05 | 0.59 | 1.00 | 0.05 | 3.69 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -36527 | 1807 | 183 | -2312 | 1.7 | 4.8 | 0.80 | -2.49 | 0.40 | 1.00 | 0.12 | 2.53 | 0.15 | -- | -- | |
| ½ | 2 | -42437 | 1381 | -1216 | 1104 | 0.0 | -- | 0.89 | -3.55 | 0.52 | 1.00 | 0.12 | 3.32 | 0.10 | -- | -- | |
| 0 | 2 | -45771 | 1619 | -428 | -2304 | -- | 5.0 | 0.90 | -3.11 | 0.51 | 1.00 | 0.11 | 3.00 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -40923 | 2817 | -1343 | -3149 | 2.2 | 2.2 | 0.91 | -2.43 | 0.35 | 1.00 | 0.17 | 2.48 | 0.20 | -- | -- | |
| ½ | 2 | -80328 | 366 | -2201 | -1528 | 0.0 | -- | 0.91 | -3.92 | 0.56 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| 0 | 2 | -65639 | 1891 | 924 | 6486 | -- | 9.9 | 0.84 | -3.61 | 0.62 | 1.00 | 0.10 | 3.36 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -55388 | 3628 | -3012 | 829 | 2.0 2.6 | 0.89 | -2.71 | 0.40 | 1.00 | 0.18 | 2.70 | 0.20 | -- | -- | |
| ½ | 2 | -154374 | 2260 | -4478 | 44 | 0.0 -- | 0.91 | -3.78 | 0.54 | 1.00 | 0.06 | 3.50 | 0.05 | -- | -- | |
| 0 | 2 | -85853 | 1131 | -447 | 1328 | -- 1.5 | 0.98 | -4.21 | 0.62 | 1.00 | 0.06 | 3.82 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -32133 | 264 | -534 | 3564 | 4.9 | 6.9 | 0.84 | -2.22 | 0.34 | 1.00 | 0.02 | 2.32 | 0.02 | -- | -- | |
| ½ | 2 | -152266 | 658 | -4112 | 784 | 0.0 | -- | 0.91 | -3.66 | 0.53 | 1.00 | 0.02 | 3.40 | 0.01 | -- | -- | |
| 0 | 2 | -85740 | 280 | -1937 | 906 | -- | 1.1 | 0.99 | -4.12 | 0.60 | 1.00 | 0.01 | 3.75 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -33236 | 127 | -1217 | 612 | 2.3 | 0.7 | 0.86 | -2.53 | 0.39 | 1.00 | 0.01 | 2.56 | 0.01 | -- | -- | |
| ½ | 2 | -103103 | 629 | -1912 | 34 | 0.0 | -- | 0.91 | -3.93 | 0.57 | 1.00 | 0.02 | 3.61 | 0.02 | -- | -- | |
| 0 | 2 | -57131 | 317 | 641 | -109 | -- | 0.2 | 1.00 | -4.35 | 0.63 | 1.00 | 0.02 | 3.93 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -26895 | 1219 | -45 | -179 | 2.5 | 0.6 | 0.85 | -1.81 | 0.28 | 1.00 | 0.08 | 2.02 | 0.12 | -- | -- | |
| ½ | 2 | -95344 | 635 | -1279 | -270 | 0.0 | -- | 0.91 | -3.20 | 0.46 | 1.00 | 0.02 | 3.06 | 0.02 | -- | -- | |
| 0 | 2 | -57051 | 1143 | -581 | -50 | -- | 0.1 | 1.00 | -3.83 | 0.55 | 1.00 | 0.08 | 3.53 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -29815 | 531 | -219 | 616 | 2.4 | 0.1 | 0.83 | -1.96 | 0.31 | 1.00 | 0.04 | 2.13 | 0.05 | -- | -- | |
| ½ | 2 | -101562 | 1068 | -447 | 564 | 0.0 | -- | 0.90 | -3.35 | 0.48 | 1.00 | 0.04 | 3.17 | 0.03 | -- | -- | |
| 0 | 2 | -64083 | 1692 | 47 | -279 | -- | 0.4 | 0.99 | -4.22 | 0.62 | 1.00 | 0.11 | 3.83 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -37142 | 3822 | -237 | 169 | 2.3 | 0.7 | 0.86 | -2.07 | 0.32 | 1.00 | 0.21 | 2.21 | 0.29 | -- | -- | |
| ½ | 2 | -119073 | 2913 | -452 | 715 | 0.0 | -- | 0.91 | -3.32 | 0.48 | 1.00 | 0.08 | 3.15 | 0.08 | -- | -- | |
| 0 | 2 | -67369 | 1457 | -181 | -1469 | -- | 2.2 | 0.97 | -3.76 | 0.56 | 1.00 | 0.08 | 3.48 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -36495 | 6120 | 178 | 394 | 2.6 | 1.3 | 0.86 | -2.15 | 0.32 | 1.00 | 0.36 | 2.27 | 0.48 | -- | -- | |
| ½ | 2 | -124850 | 3507 | -450 | 1199 | 0.0 | -- | 0.91 | -3.68 | 0.53 | 1.00 | 0.10 | 3.42 | 0.09 | -- | -- | |
| 0 | 2 | -76271 | 1413 | 155 | -1901 | -- | 2.5 | 0.96 | -4.50 | 0.68 | 1.00 | 0.08 | 4.03 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -78101 | 1510 | -10962 | 1797 | 1.8 3.5 | 0.85 | -3.69 | 0.57 | 1.00 | 0.07 | 3.43 | 0.06 | -- | -- | |
| ½ | 2 | -202352 | 3000 | -3570 | 3643 | 0.0 -- | 0.91 | -4.78 | 0.69 | 1.00 | 0.07 | 4.25 | 0.05 | -- | -- | |
| 0 | 2 | -110400 | 1500 | 9348 | 4001 | -- 3.6 | 0.95 | -5.22 | 0.79 | 1.00 | 0.07 | 4.57 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -64532 | 705 | -67 | 1490 | 2.3 0.4 | 0.84 | -2.96 | 0.46 | 1.00 | 0.03 | 2.88 | 0.03 | -- | -- | |
| ½ | 2 | -202801 | 4200 | 1888 | -303 | 0.0 -- | 0.91 | -4.65 | 0.67 | 1.00 | 0.10 | 4.15 | 0.07 | -- | -- | |
| 0 | 2 | -119975 | 2221 | 3858 | 908 | -- 0.8 | 0.99 | -5.50 | 0.80 | 1.00 | 0.10 | 4.78 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -63739 | 5900 | -11048 | 760 | 1.9 | 3.4 | 0.86 | -3.86 | 0.59 | 1.00 | 0.36 | 3.55 | 0.30 | -- | -- | |
| ½ | 2 | -170352 | 6355 | -3869 | -1769 | 0.0 | -- | 0.91 | -5.16 | 0.74 | 1.00 | 0.19 | 4.53 | 0.13 | -- | -- | |
| 0 | 2 | -92376 | 3178 | 9831 | 1498 | -- | 1.6 | 0.97 | -5.59 | 0.83 | 1.00 | 0.19 | 4.86 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -16530 | 6133 | 49 | 0 | 0.0 | 0.8 | 0.89 | -2.12 | 0.21 | 1.00 | 0.79 | 2.59 | 0.91 | -- | -- | |
| ½ | 2 | -63313 | 3801 | 343 | 0 | 0.5 | -- | 0.91 | -4.06 | 0.39 | 1.00 | 0.24 | 4.04 | 0.18 | -- | -- | |
| 0 | 2 | -33326 | 204 | 1311 | 0 | -- | 0.0 | 1.00 | -4.27 | 0.41 | 1.00 | 0.03 | 4.20 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -13417 | 1209 | 10 | 0 | 0.0 | 0.2 | 0.90 | -3.10 | 0.45 | 1.00 | 0.28 | 2.98 | 0.28 | -- | -- | |
| ½ | 2 | -23772 | 1217 | -52 | 0 | 0.0 | -- | 0.90 | -5.49 | 0.79 | 1.00 | 0.28 | 4.78 | 0.18 | -- | -- | |
| 0 | 2 | -23863 | 657 | -71 | 0 | -- | 0.0 | 1.00 | -5.51 | 0.80 | 1.00 | 0.15 | 4.79 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -38605 | 9420 | -355 | 532 | 0.0 | 3.4 | 0.78 | -2.53 | 0.42 | 1.00 | 0.62 | 2.55 | 0.72 | -- | -- | |
| ½ | 2 | -73075 | 1879 | -256 | -3276 | 0.0 | -- | 0.88 | -4.07 | 0.60 | 1.00 | 0.10 | 3.72 | 0.08 | -- | -- | |
| 0 | 2 | -72939 | 5582 | 1491 | -5859 | -- | 8.0 | 0.85 | -4.64 | 0.81 | 1.00 | 0.36 | 4.14 | 0.26 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -65040 | 2343 | -416 | -2185 | 0.0 | 2.2 | 0.82 | -3.08 | 0.49 | 1.00 | 0.11 | 2.97 | 0.11 | -- | -- | |
| ½ | 2 | -70006 | 881 | -368 | 1643 | 0.0 | -- | 0.90 | -3.32 | 0.48 | 1.00 | 0.04 | 3.15 | 0.04 | -- | -- | |
| 0 | 2 | -74051 | 3016 | 744 | 1801 | -- | 2.4 | 0.97 | -3.51 | 0.53 | 1.00 | 0.14 | 3.29 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -68987 | 13699 | -1349 | 3437 | 0.0 | 1.0 | 0.87 | -3.40 | 0.51 | 1.00 | 0.68 | 3.21 | 0.63 | -- | -- | |
| ½ | 2 | -88753 | 12343 | -98 | 4667 | 0.0 | -- | 0.90 | -4.38 | 0.63 | 1.00 | 0.61 | 3.94 | 0.46 | -- | -- | |
| 0 | 2 | -98281 | 11517 | 2333 | 4428 | -- | 4.5 | 0.94 | -4.85 | 0.75 | 1.00 | 0.57 | 4.30 | 0.40 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -86384 | 4855 | -563 | 1593 | 0.0 | 6.5 | 0.71 | -5.60 | 0.69 | 1.00 | 0.31 | 5.20 | 0.18 | -- | -- | |
| ½ | 2 | -90645 | 1500 | 367 | 1481 | 0.4 | -- | 0.83 | -5.67 | 0.60 | 1.00 | 0.09 | 5.25 | 0.05 | -- | -- | |
| 0 | 2 | -94428 | 999 | 1989 | 2233 | -- | 2.4 | 0.96 | -5.70 | 0.63 | 1.00 | 0.06 | 5.28 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -29809 | 1083 | 212 | 0 | 0.0 | 3.3 | 0.81 | -4.55 | 0.50 | 1.00 | 0.17 | 4.41 | 0.11 | -- | -- | |
| ½ | 2 | -47847 | 2041 | 255 | 0 | 0.5 | -- | 0.87 | -7.31 | 0.74 | 1.00 | 0.31 | 6.48 | 0.14 | -- | -- | |
| 0 | 2 | -58496 | 5457 | -476 | 0 | -- | 0.0 | 1.00 | -8.93 | 0.90 | 1.00 | 0.83 | 7.70 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -30504 | 4038 | -147 | -57 | 0.0 | 5.5 | 0.69 | -4.58 | 0.59 | 1.00 | 0.61 | 4.44 | 0.41 | -- | -- | |
| ½ | 2 | -51923 | 7926 | -41 | 504 | 0.1 | -- | 0.81 | -4.04 | 0.44 | 1.00 | 0.62 | 4.03 | 0.46 | -- | -- | |
| 0 | 2 | -30055 | 5799 | -95 | 1881 | -- | 6.3 | 0.80 | -3.81 | 0.52 | 1.00 | 0.73 | 3.86 | 0.57 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -142748 | 9962 | -2574 | 23624 | 0.0 | 0.9 | 0.85 | -4.63 | 0.71 | 1.00 | 0.32 | 4.13 | 0.23 | -- | -- | |
| ½ | 2 | -313247 | 24827 | 1448 | 5177 | 0.0 | -- | 0.89 | -4.97 | 0.73 | 1.00 | 0.39 | 4.39 | 0.27 | -- | -- | |
| 0 | 2 | -213131 | 22102 | 5784 | -13661 | -- | 6.4 | 0.96 | -5.35 | 0.81 | 1.00 | 0.55 | 4.67 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -95001 | 11766 | -3906 | 6905 | 0.0 | 4.7 | 0.74 | -6.02 | 0.72 | 1.00 | 0.75 | 5.52 | 0.41 | -- | -- | |
| ½ | 2 | -93622 | 5424 | 549 | 2566 | 0.6 | -- | 0.84 | -6.05 | 0.64 | 1.00 | 0.35 | 5.54 | 0.19 | -- | -- | |
| 0 | 2 | -101041 | 53 | 5362 | -2011 | -- | 2.0 | 0.97 | -6.53 | 0.71 | 1.00 | 0.00 | 5.90 | 0.00 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -42129 | 11 | 813 | 417 | 0.0 | 0.6 | 0.83 | -2.86 | 0.45 | 1.00 | 0.00 | 2.81 | 0.00 | -- | -- | |
| ½ | 2 | -65365 | 4856 | 25 | -1559 | 0.0 | -- | 0.86 | -4.44 | 0.67 | 1.00 | 0.33 | 3.99 | 0.25 | -- | -- | |
| 0 | 2 | -70656 | 5206 | -1096 | 83 | -- | 0.1 | 1.00 | -4.80 | 0.73 | 1.00 | 0.35 | 4.26 | 0.25 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -22213 | 6621 | 287 | 166 | 0.0 | 2.9 | 0.82 | -3.23 | 0.52 | 1.00 | 0.96 | 3.08 | 0.94 | -- | -- | |
| ½ | 2 | -24579 | 4130 | 354 | 83 | 0.0 | -- | 0.89 | -3.57 | 0.52 | 1.00 | 0.60 | 3.34 | 0.54 | -- | -- | |
| 0 | 2 | -27692 | 2817 | 405 | 170 | -- | 0.6 | 0.97 | -4.02 | 0.60 | 1.00 | 0.41 | 3.68 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -108767 | 5918 | 952 | -10918 | 0.0 | 6.7 | 0.70 | -3.25 | 0.60 | 1.00 | 0.18 | 3.10 | 0.17 | -- | -- | |
| ½ | 2 | -264262 | 20928 | 1465 | -24346 | 0.0 | -- | 0.83 | -3.89 | 0.61 | 1.00 | 0.31 | 3.57 | 0.26 | -- | -- | |
| 0 | 2 | -100392 | 9954 | 507 | -10252 | -- | 10.2 | 0.85 | -4.66 | 0.85 | 1.00 | 0.46 | 4.15 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -46334 | 3717 | 281 | 302 | 0.0 | 1.2 | 0.81 | -3.88 | 0.63 | 1.00 | 0.31 | 3.57 | 0.26 | -- | -- | |
| ½ | 2 | -75876 | 3982 | 416 | -97 | 0.0 | -- | 0.86 | -4.34 | 0.66 | 1.00 | 0.23 | 3.91 | 0.17 | -- | -- | |
| 0 | 2 | -70536 | 2081 | 517 | 646 | -- | 0.9 | 0.99 | -5.11 | 0.79 | 1.00 | 0.15 | 4.50 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -61658 | 7132 | -330 | 1231 | 0.0 | 4.5 | 0.75 | -3.12 | 0.55 | 1.00 | 0.36 | 3.00 | 0.36 | -- | -- | |
| ½ | 2 | -157396 | 17830 | -1377 | 710 | 0.0 | -- | 0.86 | -3.51 | 0.53 | 1.00 | 0.40 | 3.29 | 0.36 | -- | -- | |
| 0 | 2 | -91795 | 13042 | 371 | -356 | -- | 0.4 | 1.00 | -4.15 | 0.63 | 1.00 | 0.59 | 3.78 | 0.47 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -48124 | 9879 | 907 | 394 | 0.0 | 6.4 | 0.69 | -4.00 | 0.75 | 1.00 | 0.82 | 3.66 | 0.67 | -- | -- | |
| ½ | 2 | -69520 | 12177 | -132 | -1427 | 0.0 | -- | 0.83 | -5.84 | 0.92 | 1.00 | 1.02 | 5.04 | 0.61 | -- | -- | |
| 0 | 2 | -61837 | 6745 | -2121 | -243 | -- | 0.4 | 0.99 | -5.25 | 0.84 | 1.00 | 0.57 | 4.60 | 0.37 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -42671 | 5265 | 1234 | -32 | 0.0 | 0.8 | 0.83 | -3.01 | 0.47 | 1.00 | 0.37 | 2.91 | 0.38 | -- | -- | |
| ½ | 2 | -70645 | 9565 | 599 | -3599 | 0.0 | -- | 0.86 | -3.66 | 0.55 | 1.00 | 0.50 | 3.41 | 0.44 | -- | -- | |
| 0 | 2 | -59768 | 8454 | -1591 | -125 | -- | 0.2 | 1.00 | -3.76 | 0.57 | 1.00 | 0.53 | 3.48 | 0.46 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -18641 | 3339 | -599 | -54 | 0.0 | 1.0 | 0.85 | -3.73 | 0.57 | 1.00 | 0.67 | 3.46 | 0.58 | -- | -- | |
| ½ | 2 | -86029 | 10016 | 188 | -1682 | 0.0 | -- | 0.89 | -5.07 | 0.74 | 1.00 | 0.59 | 4.46 | 0.40 | -- | -- | |
| 0 | 2 | -39133 | 2833 | 584 | 0 | -- | 0.0 | 1.00 | -6.10 | 0.89 | 1.00 | 0.44 | 5.23 | 0.25 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -45057 | 5923 | -2710 | -272 | 0.0 | 2.2 | 0.80 | -3.54 | 0.39 | 1.00 | 0.47 | 3.66 | 0.38 | -- | -- | |
| ½ | 2 | -76384 | 3429 | 283 | 3595 | 0.4 | -- | 0.87 | -4.93 | 0.50 | 1.00 | 0.22 | 4.70 | 0.14 | -- | -- | |
| 0 | 2 | -84030 | 4335 | 2463 | 3401 | -- | 4.0 | 0.94 | -5.43 | 0.59 | 1.00 | 0.28 | 5.07 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -97939 | 7718 | -2798 | -288 | 0.0 4.6 | 0.71 | -3.56 | 0.65 | 1.00 | 0.28 | 3.33 | 0.25 | -- | -- | |
| ½ | 2 | -121006 | 5070 | 190 | -18866 | 0.0 -- | 0.84 | -4.40 | 0.68 | 1.00 | 0.18 | 3.96 | 0.14 | -- | -- | |
| 0 | 2 | -127309 | 2471 | 3981 | -18818 | -- 14.8 | 0.87 | -4.63 | 0.83 | 1.00 | 0.09 | 4.13 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -5661 | 201 | 32 | 0 | 0.0 | 4.8 | 0.70 | -2.96 | 0.55 | 1.00 | 0.11 | 2.88 | 0.11 | -- | -- | |
| ½ | 2 | -23481 | 817 | 37 | 0 | 0.0 | -- | 0.83 | -3.07 | 0.48 | 1.00 | 0.11 | 2.96 | 0.11 | -- | -- | |
| 0 | 2 | -13473 | 1192 | 30 | 0 | -- | 0.0 | 1.00 | -3.53 | 0.55 | 1.00 | 0.31 | 3.30 | 0.28 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10693 | 1936 | 30 | 0 | 0.0 | 7.6 | 0.65 | -3.81 | 0.77 | 1.00 | 0.69 | 3.52 | 0.59 | -- | -- | |
| ½ | 2 | -43626 | 9488 | -79 | 0 | 0.0 | -- | 0.78 | -3.88 | 0.65 | 1.00 | 0.84 | 3.57 | 0.71 | -- | -- | |
| 0 | 2 | -25469 | 4951 | 163 | 0 | -- | 0.0 | 1.00 | -4.53 | 0.75 | 1.00 | 0.88 | 4.06 | 0.65 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -71814 | 13270 | -3964 | 1564 | 0.0 | 3.8 | 0.75 | -3.95 | 0.69 | 1.00 | 0.73 | 3.62 | 0.60 | -- | -- | |
| ½ | 2 | -74814 | 14808 | 841 | -210 | 0.0 | -- | 0.86 | -4.06 | 0.61 | 1.00 | 0.80 | 3.70 | 0.65 | -- | -- | |
| 0 | 2 | -77137 | 17863 | 6466 | -2903 | -- | 3.8 | 0.95 | -4.13 | 0.66 | 1.00 | 0.96 | 3.75 | 0.76 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -145953 | 5647 | -1290 | -8379 | 0.0 | 2.2 | 0.81 | -3.80 | 0.61 | 1.00 | 0.15 | 3.51 | 0.13 | -- | -- | |
| ½ | 2 | -171429 | 6122 | -331 | 14627 | 0.0 | -- | 0.89 | -4.46 | 0.65 | 1.00 | 0.16 | 4.01 | 0.12 | -- | -- | |
| 0 | 2 | -185070 | 2693 | 2605 | 10871 | -- | 5.9 | 0.96 | -4.82 | 0.73 | 1.00 | 0.07 | 4.27 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -96383 | 8392 | 4924 | -7451 | 0.0 | 16.6 | 0.52 | -2.98 | 0.50 | 1.00 | 0.26 | 3.23 | 0.24 | -- | -- | |
| ½ | 2 | -353965 | 7833 | -11060 | 3772 | 3.1 | -- | 0.64 | -4.07 | 0.57 | 1.00 | 0.09 | 4.05 | 0.07 | -- | -- | |
| 0 | 2 | -169408 | 5539 | -17364 | 9498 | -- | 5.6 | 0.95 | -4.93 | 0.72 | 1.00 | 0.16 | 4.70 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -28049 | 1183 | -2188 | 0 | 0.0 | 2.4 | 0.83 | -3.31 | 0.35 | 1.00 | 0.14 | 3.48 | 0.12 | -- | -- | |
| ½ | 2 | -36559 | 5421 | -1093 | 0 | 3.0 | -- | 0.80 | -4.75 | 0.52 | 1.00 | 0.70 | 4.56 | 0.46 | -- | -- | |
| 0 | 2 | -54050 | 10735 | 34 | 0 | -- | 0.0 | 1.00 | -7.02 | 0.77 | 1.00 | 1.39 | 6.27 | 0.67 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -17860 | 240 | -127 | 223 | 0.0 | 15.8 | 0.52 | -3.89 | 0.66 | 1.00 | 0.05 | 3.92 | 0.04 | -- | -- | |
| ½ | 2 | -57293 | 7408 | -466 | 0 | 0.8 | -- | 0.68 | -4.68 | 0.61 | 1.00 | 0.61 | 4.51 | 0.40 | -- | -- | |
| 0 | 2 | -33180 | 1496 | 227 | 0 | -- | 0.0 | 1.00 | -5.42 | 0.71 | 1.00 | 0.24 | 5.06 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 120 Descrizione: Maschio murario n. 120 verso portico
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -16583 | 8993 | 240 | -3506 | 0.0 | 13.3 | 0.50 | -1.24 | 0.32 | 1.00 | 0.67 | 1.59 | 1.27 | -- | -- | |
| ½ | 2 | -99632 | 14742 | 135 | -19678 | 0.0 | -- | 0.69 | -3.01 | 0.57 | 1.00 | 0.44 | 2.92 | 0.46 | -- | -- | |
| 0 | 2 | -52481 | 4674 | -179 | 503 | -- | 1.0 | 0.98 | -4.39 | 0.85 | 1.00 | 0.39 | 3.95 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 121 Descrizione: Maschio murario n. 121 verso portico
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -14512 | 2517 | 2371 | 1533 | 0.0 | 13.3 | 0.50 | -0.62 | 0.16 | 1.00 | 0.11 | 1.13 | 0.29 | -- | -- | |
| ½ | 2 | -92398 | 6199 | -9646 | -4711 | 0.0 | -- | 0.69 | -1.51 | 0.29 | 1.00 | 0.10 | 1.79 | 0.17 | -- | -- | |
| 0 | 2 | -69941 | 10613 | -8466 | 696 | -- | 1.0 | 0.99 | -2.85 | 0.55 | 1.00 | 0.43 | 2.80 | 0.46 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 122 Descrizione: Maschio murario n. 122 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -18094 | 4698 | 792 | 0 | 0.0 | 13.3 | 0.50 | -1.94 | 0.34 | 1.00 | 0.50 | 2.46 | 0.62 | -- | -- | |
| ½ | 2 | -88724 | 12739 | -2 | -5455 | 0.0 | -- | 0.69 | -3.67 | 0.47 | 1.00 | 0.53 | 3.75 | 0.42 | -- | -- | |
| 0 | 2 | -46434 | 10902 | 494 | 0 | -- | 0.0 | 1.00 | -5.45 | 0.70 | 1.00 | 1.28 | 5.09 | 0.75 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 124 Descrizione: Maschio murario n. 124 verso portico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -54012 | 9810 | -1866 | -3772 | 0.0 | 16.6 | 0.52 | -4.01 | 0.68 | 1.00 | 0.73 | 4.01 | 0.55 | -- | -- | |
| ½ | 2 | -146010 | 6662 | -7388 | -6744 | 5.1 | -- | 0.60 | -4.86 | 0.71 | 1.00 | 0.22 | 4.64 | 0.14 | -- | -- | |
| 0 | 2 | -64836 | 4757 | -182 | 0 | -- | 0.0 | 1.00 | -5.96 | 0.88 | 1.00 | 0.44 | 5.47 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 125 Descrizione: Maschio murario n. 125
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -12184 | 5395 | 332 | 0 | 0.0 | 14.9 | 0.51 | -1.92 | 0.49 | 1.00 | 0.85 | 2.10 | 1.21 | -- | -- | |
| ½ | 2 | -38203 | 5787 | 340 | 0 | 0.0 | -- | 0.69 | -3.18 | 0.60 | 1.00 | 0.48 | 3.04 | 0.47 | -- | -- | |
| 0 | 2 | -24738 | 1651 | 295 | 0 | -- | 0.0 | 1.00 | -4.11 | 0.78 | 1.00 | 0.27 | 3.75 | 0.22 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -30652 | 8075 | 277 | -3430 | 0.0 | 4.2 | 0.76 | -2.38 | 0.41 | 1.00 | 0.63 | 2.44 | 0.77 | -- | -- | |
| ½ | 2 | -211557 | 19820 | -604 | -6180 | 0.0 | -- | 0.87 | -3.74 | 0.56 | 1.00 | 0.35 | 3.46 | 0.30 | -- | -- | |
| 0 | 2 | -57559 | 705 | 121 | -2082 | -- | 3.6 | 0.92 | -5.00 | 0.82 | 1.00 | 0.06 | 4.41 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -32714 | 5870 | 2303 | 0 | 0.0 | 0.0 | 0.90 | -3.13 | 0.45 | 1.00 | 0.56 | 3.01 | 0.56 | -- | -- | |
| ½ | 2 | -105638 | 10979 | 1710 | 837 | 0.0 | -- | 0.90 | -3.24 | 0.47 | 1.00 | 0.34 | 3.09 | 0.33 | -- | -- | |
| 0 | 2 | -47974 | 4936 | 355 | -1584 | -- | 3.3 | 0.94 | -3.41 | 0.53 | 1.00 | 0.35 | 3.22 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 128 Descrizione: Maschio murario n. 128 veso portico
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -38612 | 11468 | 2137 | -436 | 0.0 | 6.1 | 0.70 | -3.24 | 0.60 | 1.00 | 0.96 | 3.09 | 0.93 | -- | -- | |
| ½ | 2 | -84861 | 23968 | -69 | 86 | 0.0 | -- | 0.83 | -3.24 | 0.51 | 1.00 | 0.91 | 3.09 | 0.89 | -- | -- | |
| 0 | 2 | -48360 | 14983 | -440 | 207 | -- | 0.4 | 0.99 | -3.61 | 0.57 | 1.00 | 1.12 | 3.37 | 1.00 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -43569 | 727 | -262 | 2082 | 0.0 | 2.2 | 0.82 | -3.47 | 0.55 | 1.00 | 0.06 | 3.26 | 0.05 | -- | -- | |
| ½ | 2 | -62271 | 3934 | -96 | -2391 | 0.0 | -- | 0.90 | -4.96 | 0.72 | 1.00 | 0.31 | 4.38 | 0.21 | -- | -- | |
| 0 | 2 | -64979 | 891 | -642 | -980 | -- | 1.5 | 0.97 | -5.18 | 0.78 | 1.00 | 0.07 | 4.54 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| l | 2 | -134331 | 2652 | -6620 | -7580 | 0.0 | 2.6 | 0.80 | -3.28 | 0.53 | 1.00 | 0.06 | 3.12 | 0.06 | -- | -- | |
| ½ | 2 | -191427 | 12336 | -8694 | 16425 | 0.0 | -- | 0.89 | -3.66 | 0.54 | 1.00 | 0.24 | 3.40 | 0.21 | -- | -- | |
| 0 | 2 | -163372 | 16457 | -11353 | 31870 | -- | 19.5 | 0.87 | -3.99 | 0.67 | 1.00 | 0.40 | 3.65 | 0.33 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 132 Descrizione: Maschio murario n. 132
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -29996 | 4295 | -107 | 0 | 0.0 | 14.4 | 0.51 | -2.54 | 0.65 | 1.00 | 0.36 | 2.57 | 0.43 | -- | -- | |
| ½ | 2 | -53038 | 8977 | 713 | -0 | 0.0 | -- | 0.69 | -3.42 | 0.65 | 1.00 | 0.58 | 3.23 | 0.54 | -- | -- | |
| 0 | 2 | -37553 | 4061 | -412 | 0 | -- | 0.0 | 1.00 | -4.24 | 0.80 | 1.00 | 0.46 | 3.84 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 133 Descrizione: Maschio murario n. 133
altezza calcolata: 408.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -35759 | 6950 | -248 | 0 | 0.0 | 2.7 | 0.79 | -3.79 | 0.63 | 1.00 | 0.74 | 3.50 | 0.63 | -- | -- | |
| ½ | 2 | -38701 | 8680 | 123 | 0 | 0.0 | -- | 0.88 | -4.10 | 0.61 | 1.00 | 0.92 | 3.74 | 0.74 | -- | -- | |
| 0 | 2 | -41945 | 9059 | 587 | 0 | -- | 0.0 | 1.00 | -4.45 | 0.66 | 1.00 | 0.96 | 4.00 | 0.72 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 134 Descrizione: Maschio murario n. 134
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -45438 | 939 | -2863 | 0 | 0.0 | 4.8 | 0.71 | -4.17 | 0.77 | 1.00 | 0.09 | 3.78 | 0.07 | -- | -- | |
| ½ | 2 | -43203 | 2603 | 749 | 0 | 0.0 | -- | 0.84 | -4.06 | 0.63 | 1.00 | 0.24 | 3.70 | 0.20 | -- | -- | |
| 0 | 2 | -39596 | 573 | 4596 | 0 | -- | 0.0 | 1.00 | -3.81 | 0.59 | 1.00 | 0.06 | 3.52 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 408.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -93832 | 5085 | -6605 | 10629 | 0.0 | 5.4 | 0.70 | -3.75 | 0.69 | 1.00 | 0.20 | 3.47 | 0.18 | -- | -- | |
| ½ | 2 | -98921 | 13122 | -3330 | 2855 | 0.0 | -- | 0.83 | -4.00 | 0.63 | 1.00 | 0.53 | 3.66 | 0.44 | -- | -- | |
| 0 | 2 | -91472 | 7803 | 32 | -2318 | -- | 2.5 | 0.97 | -3.70 | 0.59 | 1.00 | 0.32 | 3.44 | 0.28 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -29370 | 76 | -1849 | -61 | 0.0 | 0.1 | 0.89 | -4.56 | 0.67 | 1.00 | 0.01 | 4.08 | 0.01 | -- | -- | |
| ½ | 2 | -71877 | 2704 | -689 | -104 | 0.0 | -- | 0.89 | -4.51 | 0.66 | 1.00 | 0.17 | 4.05 | 0.13 | -- | -- | |
| 0 | 2 | -37822 | 1791 | 998 | 107 | -- | 0.3 | 0.99 | -4.75 | 0.70 | 1.00 | 0.23 | 4.22 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -74910 | 11526 | -11151 | -3172 | 0.0 2.8 | 0.83 | -2.75 | 0.29 | 1.00 | 0.42 | 3.06 | 0.41 | -- | -- | |
| ½ | 2 | -188870 | 7693 | -6625 | -8242 | 3.5 -- | 0.79 | -3.46 | 0.38 | 1.00 | 0.14 | 3.60 | 0.12 | -- | -- | |
| 0 | 2 | -106243 | 3845 | 7298 | 1060 | -- 1.0 | 0.99 | -3.89 | 0.44 | 1.00 | 0.14 | 3.92 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -47828 | 2692 | -13271 | -265 | 0.0 | 5.5 | 0.71 | -4.06 | 0.51 | 1.00 | 0.23 | 4.05 | 0.17 | -- | -- | |
| ½ | 2 | -119666 | 577 | -8400 | -519 | 7.0 | -- | 0.63 | -5.08 | 0.71 | 1.00 | 0.02 | 4.81 | 0.02 | -- | -- | |
| 0 | 2 | -64930 | 288 | 6396 | -503 | -- | 0.8 | 0.98 | -5.51 | 0.79 | 1.00 | 0.02 | 5.14 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -91922 | 9125 | -20653 | 613 | 0.0 | 4.3 | 0.78 | -3.24 | 0.37 | 1.00 | 0.32 | 3.43 | 0.28 | -- | -- | |
| ½ | 2 | -228697 | 5144 | -15625 | -674 | 6.8 | -- | 0.68 | -4.03 | 0.52 | 1.00 | 0.09 | 4.02 | 0.07 | -- | -- | |
| 0 | 2 | -126652 | 2571 | 9582 | -4413 | -- | 3.5 | 0.96 | -4.46 | 0.60 | 1.00 | 0.09 | 4.34 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -54335 | 10463 | -15381 | 535 | 0.0 | 5.7 | 0.70 | -3.83 | 0.48 | 1.00 | 0.74 | 3.87 | 0.57 | -- | -- | |
| ½ | 2 | -135895 | 1995 | -10378 | -136 | 7.6 | -- | 0.61 | -4.79 | 0.69 | 1.00 | 0.07 | 4.59 | 0.05 | -- | -- | |
| 0 | 2 | -74087 | 997 | 6914 | -2084 | -- | 2.8 | 0.95 | -5.22 | 0.79 | 1.00 | 0.07 | 4.92 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -84386 | 12531 | -17369 | 1910 | 0.0 | 4.0 | 0.79 | -2.94 | 0.33 | 1.00 | 0.44 | 3.20 | 0.41 | -- | -- | |
| ½ | 2 | -209999 | 8703 | -13398 | 3944 | 6.4 | -- | 0.70 | -3.65 | 0.46 | 1.00 | 0.15 | 3.74 | 0.12 | -- | -- | |
| 0 | 2 | -117448 | 4350 | 8478 | -4295 | -- | 3.7 | 0.96 | -4.09 | 0.54 | 1.00 | 0.15 | 4.06 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -41249 | 10428 | -8823 | 196 | 0.0 | 4.4 | 0.74 | -2.77 | 0.33 | 1.00 | 0.70 | 3.08 | 0.68 | -- | -- | |
| ½ | 2 | -108515 | 7143 | -5119 | 1344 | 4.7 | -- | 0.69 | -3.64 | 0.46 | 1.00 | 0.24 | 3.73 | 0.19 | -- | -- | |
| 0 | 2 | -60711 | 3571 | 4929 | -3074 | -- | 5.1 | 0.91 | -4.07 | 0.57 | 1.00 | 0.24 | 4.06 | 0.18 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -49206 | 753 | -413 | -559 | 0.0 | 0.3 | 0.90 | -1.72 | 0.17 | 1.00 | 0.03 | 2.29 | 0.03 | -- | -- | |
| ½ | 2 | -142542 | 2266 | -1189 | -244 | 0.8 | -- | 0.91 | -2.49 | 0.24 | 1.00 | 0.04 | 2.87 | 0.04 | -- | -- | |
| 0 | 2 | -83642 | 1132 | -550 | 1261 | -- | 1.5 | 0.98 | -2.93 | 0.29 | 1.00 | 0.04 | 3.20 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10110 | 15449 | -248 | 0 | 0.0 | 4.0 | 0.75 | -1.16 | 0.14 | 1.00 | 1.77 | 1.87 | 2.84 | -- | -- | |
| ½ | 2 | -38744 | 3717 | -67 | 0 | 0.2 | -- | 0.86 | -2.22 | 0.23 | 1.00 | 0.21 | 2.66 | 0.24 | -- | -- | |
| 0 | 2 | -34131 | 7941 | -296 | 0 | -- | 0.0 | 1.00 | -3.91 | 0.40 | 1.00 | 0.91 | 3.93 | 0.69 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 10 Descrizione: Maschio murario n. 10 su corso Valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -18035 | 3609 | -3911 | -615 | 0.0 | 13.3 | 0.51 | -2.81 | 0.72 | 1.00 | 0.56 | 2.76 | 0.61 | -- | -- | |
| ½ | 2 | -28491 | 2205 | -1962 | 13 | 0.0 | -- | 0.69 | -2.83 | 0.54 | 1.00 | 0.22 | 2.78 | 0.24 | -- | -- | |
| 0 | 2 | -29370 | 3560 | -167 | 177 | -- | 0.6 | 0.98 | -3.20 | 0.62 | 1.00 | 0.39 | 3.06 | 0.38 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 11 Descrizione: Maschio murario n. 11 su corso Valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -9998 | 497 | -438 | 0 | 0.0 16.6 | 0.52 | -1.11 | 0.28 | 1.00 | 0.06 | 1.49 | 0.11 | -- | -- | |
| ½ | 2 | -13969 | 43 | -449 | 0 | 0.0 -- | 0.70 | -1.55 | 0.29 | 1.00 | 0.00 | 1.83 | 0.01 | -- | -- | |
| 0 | 2 | -19951 | 430 | 678 | 0 | -- 0.0 | 1.00 | -2.22 | 0.42 | 1.00 | 0.05 | 2.33 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 12 Descrizione: Maschio murario n. 12 su corso Valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -8854 | 486 | -151 | 0 | 0.0 | 16.6 | 0.52 | -1.23 | 0.31 | 1.00 | 0.07 | 1.58 | 0.13 | -- | -- | |
| ½ | 2 | -12711 | 1746 | 106 | 0 | 0.0 | -- | 0.70 | -1.76 | 0.33 | 1.00 | 0.24 | 1.98 | 0.37 | -- | -- | |
| 0 | 2 | -16691 | 2475 | 763 | 0 | -- | 0.0 | 1.00 | -2.32 | 0.43 | 1.00 | 0.34 | 2.40 | 0.43 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 13 Descrizione: Maschio murario n. 13 su corso Valdocco
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| l | 2 | -24836 | 444 | -3418 | 112 | 0.0 14.9 | 0.52 | -1.83 | 0.46 | 1.00 | 0.03 | 2.03 | 0.05 | -- | -- | |
| ½ | 2 | -34205 | 492 | -3210 | -477 | 0.0 -- | 0.69 | -2.30 | 0.43 | 1.00 | 0.03 | 2.38 | 0.04 | -- | -- | |
| 0 | 2 | -31932 | 467 | -2628 | -0 | -- 0.0 | 1.00 | -2.59 | 0.49 | 1.00 | 0.04 | 2.61 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 14 Descrizione: Maschio murario n. 14 su corso valdocco
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -31171 | 2977 | -7317 | 2245 | 0.0 | 14.9 | 0.52 | -2.27 | 0.57 | 1.00 | 0.22 | 2.36 | 0.28 | -- | -- | |
| ½ | 2 | -35920 | 1477 | -4408 | 527 | 0.0 | -- | 0.69 | -2.61 | 0.49 | 1.00 | 0.11 | 2.62 | 0.12 | -- | -- | |
| 0 | 2 | -39248 | 669 | -2704 | 419 | -- | 1.1 | 0.98 | -2.85 | 0.55 | 1.00 | 0.05 | 2.80 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 15 Descrizione: Maschio murario n. 15 su corso Valdocco
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -10112 | 423 | -413 | 195 | 0.0 | 16.6 | 0.52 | -1.19 | 0.30 | 1.00 | 0.05 | 1.56 | 0.10 | -- | -- | |
| ½ | 2 | -14741 | 2338 | -191 | 201 | 0.0 | -- | 0.70 | -1.74 | 0.33 | 1.00 | 0.28 | 1.97 | 0.42 | -- | -- | |
| 0 | 2 | -19978 | 2685 | 630 | -57 | -- | 0.3 | 0.99 | -2.36 | 0.45 | 1.00 | 0.32 | 2.43 | 0.39 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 16 Descrizione: Maschio murario n. 16 su Via del Carmine
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -11494 | 188 | -484 | 337 | 0.0 | 16.6 | 0.52 | -1.22 | 0.30 | 1.00 | 0.02 | 1.58 | 0.04 | -- | -- | |
| ½ | 2 | -16876 | 325 | -214 | 371 | 0.0 | -- | 0.70 | -1.80 | 0.34 | 1.00 | 0.03 | 2.01 | 0.05 | -- | -- | |
| 0 | 2 | -22748 | 1029 | 930 | -18 | -- | 0.1 | 1.00 | -2.42 | 0.45 | 1.00 | 0.11 | 2.48 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 17 Descrizione: Maschio murario n. 17 su via del Carmine
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -24028 | 2004 | -2903 | -754 | 0.0 | 14.9 | 0.52 | -1.69 | 0.43 | 1.00 | 0.14 | 1.93 | 0.22 | -- | -- | |
| ½ | 2 | -32347 | 2465 | -2862 | 134 | 0.0 | -- | 0.69 | -2.27 | 0.43 | 1.00 | 0.17 | 2.36 | 0.22 | -- | -- | |
| 0 | 2 | -38382 | 2080 | -2875 | 513 | -- | 1.3 | 0.97 | -2.69 | 0.52 | 1.00 | 0.15 | 2.68 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 18 Descrizione: Maschio murario n. 18 su via del Carmine
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -23732 | 295 | -1623 | 0 | 0.0 | 14.9 | 0.52 | -1.64 | 0.41 | 1.00 | 0.02 | 1.89 | 0.03 | -- | -- | |
| ½ | 2 | -33236 | 1185 | -3471 | 0 | 0.0 | -- | 0.69 | -2.30 | 0.43 | 1.00 | 0.08 | 2.39 | 0.10 | -- | -- | |
| 0 | 2 | -39692 | 894 | -4274 | 0 | -- | 0.0 | 1.00 | -2.75 | 0.52 | 1.00 | 0.06 | 2.72 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 19 Descrizione: Maschio murario n. 19 su Via Del Carmine
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -18224 | 1158 | -751 | 0 | 0.0 | 15.8 | 0.52 | -1.44 | 0.36 | 1.00 | 0.09 | 1.74 | 0.16 | -- | -- | |
| ½ | 2 | -28491 | 2850 | 455 | 0 | 0.0 | -- | 0.70 | -2.24 | 0.42 | 1.00 | 0.22 | 2.34 | 0.29 | -- | -- | |
| 0 | 2 | -38073 | 2151 | 293 | 0 | -- | 0.0 | 1.00 | -3.00 | 0.56 | 1.00 | 0.17 | 2.91 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -19587 | 2047 | 628 | 608 | 0.0 | 12.4 | 0.50 | -1.77 | 0.46 | 1.00 | 0.19 | 1.99 | 0.28 | -- | -- | |
| ½ | 2 | -43475 | 4115 | -427 | 10 | 0.0 | -- | 0.68 | -2.29 | 0.44 | 1.00 | 0.22 | 2.38 | 0.27 | -- | -- | |
| 0 | 2 | -35995 | 756 | -679 | -165 | -- | 0.5 | 0.99 | -2.85 | 0.55 | 1.00 | 0.06 | 2.80 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -6375 | 5437 | 166 | -0 | 0.0 | 13.3 | 0.51 | -1.25 | 0.32 | 1.00 | 1.07 | 1.60 | 2.00 | -- | -- | |
| ½ | 2 | -32130 | 4295 | 138 | -0 | 0.0 | -- | 0.69 | -3.15 | 0.60 | 1.00 | 0.42 | 3.02 | 0.42 | -- | -- | |
| 0 | 2 | -16351 | 1604 | -313 | -0 | -- | 0.0 | 1.00 | -3.21 | 0.61 | 1.00 | 0.31 | 3.06 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -15829 | 2283 | 11 | 0 | 0.0 | 13.3 | 0.51 | -1.33 | 0.34 | 1.00 | 0.19 | 1.66 | 0.35 | -- | -- | |
| ½ | 2 | -95545 | 692 | -121 | 0 | 0.0 | -- | 0.69 | -4.01 | 0.76 | 1.00 | 0.03 | 3.67 | 0.02 | -- | -- | |
| 0 | 2 | -53061 | 346 | -155 | 0 | -- | 0.0 | 1.00 | -4.45 | 0.84 | 1.00 | 0.03 | 4.00 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -19866 | 3011 | -320 | 0 | 0.0 | 13.3 | 0.51 | -1.57 | 0.40 | 1.00 | 0.24 | 1.84 | 0.39 | -- | -- | |
| ½ | 2 | -98961 | 2112 | -111 | 0 | 0.0 | -- | 0.69 | -3.90 | 0.74 | 1.00 | 0.08 | 3.59 | 0.07 | -- | -- | |
| 0 | 2 | -55122 | 1056 | 379 | 0 | -- | 0.0 | 1.00 | -4.35 | 0.82 | 1.00 | 0.08 | 3.92 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -53700 | 500 | -549 | -3542 | 0.6 | 7.7 | 0.66 | -2.92 | 0.58 | 1.00 | 0.03 | 2.85 | 0.03 | -- | -- | |
| ½ | 2 | -174220 | 5111 | -3561 | -4479 | 0.0 | -- | 0.79 | -3.80 | 0.63 | 1.00 | 0.11 | 3.51 | 0.10 | -- | -- | |
| 0 | 2 | -104570 | 4335 | 1508 | 1735 | -- | 1.7 | 0.98 | -4.72 | 0.79 | 1.00 | 0.20 | 4.20 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -23378 | 16439 | -2434 | 0 | 0.0 | 0.6 | 0.89 | -1.95 | 0.19 | 1.00 | 1.37 | 2.47 | 1.67 | -- | -- | |
| ½ | 2 | -92233 | 2220 | -2482 | 0 | 2.7 | -- | 0.85 | -3.85 | 0.40 | 1.00 | 0.09 | 3.89 | 0.07 | -- | -- | |
| 0 | 2 | -51303 | 1109 | 1524 | 0 | -- | 0.0 | 1.00 | -4.29 | 0.45 | 1.00 | 0.09 | 4.22 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -79323 | 3423 | -1733 | -4605 | 2.0 2.8 | 0.87 | -3.02 | 0.45 | 1.00 | 0.13 | 2.92 | 0.13 | -- | -- | |
| ½ | 2 | -196606 | 2424 | -729 | 6819 | 0.0 -- | 0.90 | -3.58 | 0.52 | 1.00 | 0.04 | 3.35 | 0.04 | -- | -- | |
| 0 | 2 | -115556 | 1111 | 3066 | 539 | -- 0.5 | 1.00 | -4.00 | 0.58 | 1.00 | 0.04 | 3.66 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -9409 | 2033 | -366 | 0 | 3.4 6.7 | 0.77 | -1.26 | 0.21 | 1.00 | 0.27 | 1.60 | 0.51 | -- | -- | |
| ½ | 2 | -62175 | 1347 | -1528 | 0 | 0.0 -- | 0.87 | -4.16 | 0.62 | 1.00 | 0.09 | 3.78 | 0.07 | -- | -- | |
| 0 | 2 | -34060 | 674 | 1743 | 0 | -- 0.0 | 1.00 | -4.55 | 0.68 | 1.00 | 0.09 | 4.08 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -60321 | 1064 | -2138 | 6726 | 1.6 | 3.8 | 0.81 | -3.01 | 0.49 | 1.00 | 0.05 | 2.92 | 0.05 | -- | -- |
| ½ | 2 | -119383 | 2959 | -460 | -4258 | 0.0 | -- | 0.89 | -3.92 | 0.57 | 1.00 | 0.10 | 3.60 | 0.08 | -- | -- |
| 0 | 2 | -81954 | 2335 | 3065 | -2830 | -- | 3.5 | 0.96 | -4.09 | 0.62 | 1.00 | 0.12 | 3.73 | 0.09 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10983 | 4625 | 239 | 0 | 3.3 | 8.4 | 0.68 | -2.10 | 0.27 | 1.00 | 0.88 | 2.57 | 1.03 | -- | -- | |
| ½ | 2 | -36406 | 2738 | 321 | 0 | 0.0 | -- | 0.81 | -3.48 | 0.38 | 1.00 | 0.26 | 3.61 | 0.22 | -- | -- | |
| 0 | 2 | -23953 | 1495 | 13 | 0 | -- | 0.0 | 1.00 | -4.58 | 0.50 | 1.00 | 0.29 | 4.43 | 0.19 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -16249 | 3488 | 97 | 0 | 2.6 | 3.7 | 0.83 | -1.54 | 0.24 | 1.00 | 0.33 | 1.82 | 0.55 | -- | -- | |
| ½ | 2 | -125541 | 9635 | -1792 | 379 | 0.0 | -- | 0.88 | -3.84 | 0.57 | 1.00 | 0.29 | 3.54 | 0.25 | -- | -- | |
| 0 | 2 | -31949 | 2097 | 43 | 0 | -- | 0.0 | 1.00 | -3.03 | 0.45 | 1.00 | 0.20 | 2.93 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -16985 | 103 | -132 | 0 | 0.6 | 6.0 | 0.68 | -1.80 | 0.35 | 1.00 | 0.01 | 2.01 | 0.02 | -- | -- | |
| ½ | 2 | -106909 | 1656 | -799 | -294 | 0.0 | -- | 0.81 | -3.39 | 0.55 | 1.00 | 0.05 | 3.21 | 0.05 | -- | -- | |
| 0 | 2 | -16664 | 421 | -180 | 0 | -- | 0.0 | 1.00 | -2.69 | 0.44 | 1.00 | 0.07 | 2.68 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -16651 | 2140 | 67 | -512 | 1.9 | 0.7 | 0.83 | -1.74 | 0.27 | 1.00 | 0.22 | 1.96 | 0.34 | -- | -- | |
| ½ | 2 | -69903 | 3207 | -45 | -1150 | 0.0 | -- | 0.88 | -3.64 | 0.54 | 1.00 | 0.17 | 3.39 | 0.15 | -- | -- | |
| 0 | 2 | -31247 | 1472 | 98 | 1527 | -- | 4.9 | 0.88 | -3.26 | 0.54 | 1.00 | 0.15 | 3.10 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -27886 | 340 | -2845 | -142 | 1.7 | 1.4 | 0.87 | -2.94 | 0.44 | 1.00 | 0.04 | 2.87 | 0.04 | -- | -- | |
| ½ | 2 | -82070 | 3910 | -2673 | 584 | 0.0 | -- | 0.88 | -4.33 | 0.64 | 1.00 | 0.21 | 3.91 | 0.16 | -- | -- | |
| 0 | 2 | -44829 | 1837 | 2620 | -412 | -- | 0.9 | 0.98 | -4.73 | 0.71 | 1.00 | 0.19 | 4.21 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -26448 | 5083 | -2943 | -53 | 1.8 | 1.3 | 0.86 | -3.09 | 0.47 | 1.00 | 0.59 | 2.98 | 0.60 | -- | -- | |
| ½ | 2 | -79513 | 2566 | -2388 | -956 | 0.0 | -- | 0.88 | -4.64 | 0.68 | 1.00 | 0.15 | 4.14 | 0.11 | -- | -- | |
| 0 | 2 | -43167 | 1382 | 2539 | 969 | -- | 2.2 | 0.94 | -5.04 | 0.79 | 1.00 | 0.16 | 4.44 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -5345 | 3061 | -216 | 0 | 7.2 | 21.5 | 0.44 | -1.27 | 0.25 | 1.00 | 0.73 | 1.95 | 1.12 | -- | -- | |
| ½ | 2 | -44976 | 1776 | -230 | 0 | 0.0 | -- | 0.66 | -3.99 | 0.54 | 1.00 | 0.16 | 4.00 | 0.12 | -- | -- | |
| 0 | 2 | -24279 | 1246 | 361 | 0 | -- | 0.0 | 1.00 | -4.31 | 0.58 | 1.00 | 0.22 | 4.23 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -43590 | 70 | 514 | -1381 | 0.0 | 1.1 | 0.82 | -3.24 | 0.52 | 1.00 | 0.01 | 3.09 | 0.01 | -- | -- | |
| ½ | 2 | -54362 | 2513 | 902 | 2312 | 0.0 | -- | 0.87 | -4.15 | 0.62 | 1.00 | 0.19 | 3.77 | 0.15 | -- | -- | |
| 0 | 2 | -58350 | 2526 | 504 | 191 | -- | 0.3 | 0.99 | -4.46 | 0.67 | 1.00 | 0.19 | 4.00 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -57781 | 9763 | -2397 | -4650 | 2.0 1.5 | 0.85 | -2.38 | 0.36 | 1.00 | 0.40 | 2.44 | 0.49 | -- | -- | |
| ½ | 2 | -142622 | 3616 | -726 | -9313 | 0.0 -- | 0.88 | -2.94 | 0.43 | 1.00 | 0.07 | 2.86 | 0.08 | -- | -- | |
| 0 | 2 | -81817 | 1808 | 3482 | -7027 | -- 8.6 | 0.92 | -3.37 | 0.54 | 1.00 | 0.07 | 3.19 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -55132 | 3524 | -8182 | 2788 | 1.4 | 3.0 | 0.81 | -3.76 | 0.61 | 1.00 | 0.24 | 3.48 | 0.21 | -- | -- | |
| ½ | 2 | -127567 | 4403 | -5388 | 2848 | 0.0 | -- | 0.88 | -4.35 | 0.64 | 1.00 | 0.15 | 3.92 | 0.11 | -- | -- | |
| 0 | 2 | -70129 | 2202 | 5898 | -1799 | -- | 2.6 | 0.96 | -4.78 | 0.74 | 1.00 | 0.15 | 4.25 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -58933 | 14459 | -8467 | 1438 | 1.2 | 3.9 | 0.76 | -4.70 | 0.80 | 1.00 | 1.15 | 4.18 | 0.83 | -- | -- |
| ½ | 2 | -131206 | 2820 | -5616 | -3320 | 0.0 | -- | 0.87 | -5.23 | 0.79 | 1.00 | 0.11 | 4.58 | 0.07 | -- | -- |
| 0 | 2 | -71038 | 1409 | 6301 | 22 | -- | 0.0 | 1.00 | -5.66 | 0.85 | 1.00 | 0.11 | 4.91 | 0.07 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -46004 | 21866 | -2904 | -3855 | 1.7 1.0 | 0.85 | -2.85 | 0.44 | 1.00 | 1.35 | 2.80 | 1.45 | -- | -- | |
| ½ | 2 | -125232 | 6239 | -1823 | -9249 | 0.0 -- | 0.88 | -3.88 | 0.57 | 1.00 | 0.19 | 3.57 | 0.16 | -- | -- | |
| 0 | 2 | -69606 | 3119 | 2232 | -707 | -- 1.0 | 0.99 | -4.31 | 0.65 | 1.00 | 0.19 | 3.89 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -18496 | 7229 | 94 | 0 | 2.1 | 1.9 | 0.87 | -1.97 | 0.29 | 1.00 | 0.77 | 2.14 | 1.08 | -- | -- | |
| ½ | 2 | -57139 | 2204 | -308 | 0 | 0.0 | -- | 0.88 | -3.05 | 0.45 | 1.00 | 0.12 | 2.95 | 0.12 | -- | -- | |
| 0 | 2 | -33205 | 762 | 329 | 0 | -- | 0.0 | 1.00 | -3.54 | 0.52 | 1.00 | 0.08 | 3.32 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| *l* | 2 | -19630 | 1257 | -172 | -906 | 1.7 | 3.8 | 0.81 | -1.71 | 0.27 | 1.00 | 0.11 | 1.94 | 0.17 | -- | -- | |
| ½ | 2 | -25559 | 986 | -288 | 572 | 0.0 | -- | 0.89 | -2.54 | 0.37 | 1.00 | 0.10 | 2.56 | 0.11 | -- | -- | |
| 0 | 2 | -30245 | 586 | 404 | -1645 | -- | 5.4 | 0.89 | -2.44 | 0.40 | 1.00 | 0.05 | 2.49 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -24497 | 507 | -1505 | -1320 | 1.9 | 3.0 | 0.86 | -1.75 | 0.27 | 1.00 | 0.04 | 1.97 | 0.06 | -- | -- | |
| ½ | 2 | -49135 | 112 | -1200 | -793 | 0.0 | -- | 0.90 | -2.88 | 0.42 | 1.00 | 0.01 | 2.82 | 0.01 | -- | -- | |
| 0 | 2 | -41753 | 332 | 1736 | 3492 | -- | 8.4 | 0.86 | -2.72 | 0.46 | 1.00 | 0.02 | 2.70 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| l | 2 | -38940 | 3930 | -3057 | -160 | 1.6 | 3.9 | 0.80 | -2.15 | 0.35 | 1.00 | 0.22 | 2.27 | 0.29 | -- | -- |
| ½ | 2 | -95366 | 2129 | -1997 | 639 | 0.0 | -- | 0.89 | -2.77 | 0.41 | 1.00 | 0.06 | 2.74 | 0.07 | -- | -- |
| 0 | 2 | -55121 | 1065 | 1786 | 1698 | -- | 3.1 | 0.96 | -3.21 | 0.49 | 1.00 | 0.06 | 3.07 | 0.06 | -- | -- |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -34433 | 450 | -1707 | -502 | 1.7 | 3.1 | 0.84 | -1.96 | 0.31 | 1.00 | 0.03 | 2.13 | 0.04 | -- | -- | |
| ½ | 2 | -94558 | 1714 | -1385 | -238 | 0.0 | -- | 0.90 | -2.70 | 0.39 | 1.00 | 0.05 | 2.68 | 0.05 | -- | -- | |
| 0 | 2 | -54872 | 857 | 1116 | 1127 | -- | 2.1 | 0.97 | -3.13 | 0.47 | 1.00 | 0.05 | 3.01 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -23175 | 1673 | -2489 | 103 | 1.8 | 2.9 | 0.85 | -2.10 | 0.32 | 1.00 | 0.15 | 2.23 | 0.20 | -- | -- | |
| ½ | 2 | -65682 | 1427 | -2265 | -313 | 0.0 | -- | 0.90 | -2.97 | 0.43 | 1.00 | 0.06 | 2.89 | 0.07 | -- | -- | |
| 0 | 2 | -37624 | 714 | 1077 | 298 | -- | 0.8 | 0.98 | -3.40 | 0.50 | 1.00 | 0.06 | 3.21 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -15006 | 2993 | -111 | -332 | 2.2 | 0.6 | 0.83 | -1.20 | 0.19 | 1.00 | 0.24 | 1.56 | 0.46 | -- | -- | |
| ½ | 2 | -53298 | 907 | -452 | -196 | 0.0 | -- | 0.90 | -2.13 | 0.31 | 1.00 | 0.04 | 2.25 | 0.05 | -- | -- | |
| 0 | 2 | -33159 | 176 | -208 | 445 | -- | 1.3 | 0.97 | -2.65 | 0.39 | 1.00 | 0.01 | 2.64 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -14432 | 185 | -132 | 257 | 2.3 0.0 | 0.80 | -1.13 | 0.18 | 1.00 | 0.01 | 1.51 | 0.03 | -- | -- | |
| ½ | 2 | -52612 | 367 | -296 | 352 | 0.0 -- | 0.89 | -2.06 | 0.30 | 1.00 | 0.01 | 2.20 | 0.02 | -- | -- | |
| 0 | 2 | -35590 | 618 | -82 | -286 | -- 0.8 | 0.98 | -2.78 | 0.41 | 1.00 | 0.05 | 2.75 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -21898 | 3499 | -220 | 207 | 2.1 | 1.2 | 0.86 | -1.45 | 0.22 | 1.00 | 0.23 | 1.75 | 0.40 | -- | -- | |
| ½ | 2 | -71208 | 1534 | -575 | 813 | 0.0 | -- | 0.90 | -2.36 | 0.34 | 1.00 | 0.05 | 2.43 | 0.06 | -- | -- | |
| 0 | 2 | -42136 | 767 | -318 | -584 | -- | 1.4 | 0.98 | -2.79 | 0.41 | 1.00 | 0.05 | 2.75 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -19963 | 8274 | -195 | 425 | 2.2 0.5 | 0.82 | -1.40 | 0.22 | 1.00 | 0.58 | 1.71 | 1.02 | -- | -- | |
| ½ | 2 | -72534 | 2114 | -957 | 1129 | 0.0 -- | 0.90 | -2.54 | 0.37 | 1.00 | 0.07 | 2.56 | 0.09 | -- | -- | |
| 0 | 2 | -46872 | 1441 | -142 | -1222 | -- 2.6 | 0.96 | -3.28 | 0.50 | 1.00 | 0.10 | 3.12 | 0.10 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -49827 | 0 | -9850 | 864 | 1.5 | 4.8 | 0.76 | -2.80 | 0.48 | 1.00 | 0.00 | 2.76 | 0.00 | -- | -- | |
| ½ | 2 | -128341 | 606 | -5234 | -17 | 0.0 | -- | 0.87 | -3.60 | 0.54 | 1.00 | 0.02 | 3.36 | 0.02 | -- | -- | |
| 0 | 2 | -71877 | 303 | 4979 | -1322 | -- | 1.8 | 0.98 | -4.03 | 0.62 | 1.00 | 0.02 | 3.69 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -40672 | 633 | 199 | 580 | 2.0 | 1.6 | 0.88 | -2.21 | 0.33 | 1.00 | 0.03 | 2.32 | 0.04 | -- | -- | |
| ½ | 2 | -125459 | 3182 | -1766 | -1249 | 0.0 | -- | 0.90 | -3.41 | 0.50 | 1.00 | 0.09 | 3.22 | 0.08 | -- | -- | |
| 0 | 2 | -74603 | 1760 | 532 | 755 | -- | 1.0 | 0.99 | -4.06 | 0.60 | 1.00 | 0.10 | 3.70 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -42096 | 5137 | -13345 | -1317 | 1.4 | 5.4 | 0.74 | -3.03 | 0.54 | 1.00 | 0.37 | 2.93 | 0.38 | -- | -- | |
| ½ | 2 | -106566 | 7051 | -6672 | -2457 | 0.0 | -- | 0.86 | -3.83 | 0.58 | 1.00 | 0.25 | 3.53 | 0.22 | -- | -- | |
| 0 | 2 | -59299 | 3526 | 6562 | 1817 | -- | 3.1 | 0.95 | -4.26 | 0.69 | 1.00 | 0.25 | 3.86 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -11001 | 7997 | -235 | 0 | 0.0 | 3.1 | 0.79 | -1.66 | 0.19 | 1.00 | 1.21 | 2.24 | 1.61 | -- | -- | |
| ½ | 2 | -36065 | 1887 | -751 | 0 | 2.1 | -- | 0.80 | -2.72 | 0.30 | 1.00 | 0.14 | 3.04 | 0.14 | -- | -- | |
| 0 | 2 | -20330 | 1083 | 138 | 0 | -- | 0.0 | 1.00 | -3.07 | 0.34 | 1.00 | 0.16 | 3.30 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -8492 | 1008 | 58 | 0 | 0.0 | 4.5 | 0.68 | -2.52 | 0.48 | 1.00 | 0.30 | 2.55 | 0.35 | -- | -- | |
| ½ | 2 | -15397 | 1113 | -117 | 0 | 0.0 | -- | 0.81 | -4.57 | 0.74 | 1.00 | 0.33 | 4.09 | 0.24 | -- | -- | |
| 0 | 2 | -17482 | 759 | -198 | 0 | -- | 0.0 | 1.00 | -5.19 | 0.83 | 1.00 | 0.23 | 4.55 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -17067 | 448 | -79 | 244 | 0.0 | 5.2 | 0.67 | -1.99 | 0.39 | 1.00 | 0.05 | 2.16 | 0.07 | -- | -- | |
| ½ | 2 | -33960 | 1648 | -192 | -884 | 0.0 | -- | 0.80 | -3.97 | 0.65 | 1.00 | 0.19 | 3.64 | 0.16 | -- | -- | |
| 0 | 2 | -38225 | 2248 | 51 | 870 | -- | 2.3 | 0.94 | -4.47 | 0.78 | 1.00 | 0.26 | 4.01 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -44466 | 965 | 25 | -3699 | 0.0 | 11.6 | 0.49 | -2.69 | 0.72 | 1.00 | 0.06 | 2.68 | 0.07 | -- | -- | |
| ½ | 2 | -64602 | 2202 | -739 | 1203 | 0.0 | -- | 0.67 | -3.91 | 0.76 | 1.00 | 0.13 | 3.59 | 0.11 | -- | -- | |
| 0 | 2 | -71040 | 5062 | -348 | 2772 | -- | 3.9 | 0.95 | -4.33 | 0.88 | 1.00 | 0.31 | 3.91 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -40640 | 2092 | 158 | -2113 | 0.0 | 3.1 | 0.78 | -2.30 | 0.38 | 1.00 | 0.12 | 2.39 | 0.15 | -- | -- | |
| ½ | 2 | -63432 | 7284 | 880 | -4019 | 0.0 | -- | 0.88 | -3.39 | 0.50 | 1.00 | 0.39 | 3.21 | 0.36 | -- | -- | |
| 0 | 2 | -69724 | 11344 | -178 | -3230 | -- | 4.6 | 0.94 | -3.73 | 0.59 | 1.00 | 0.61 | 3.46 | 0.53 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -56453 | 3949 | 61 | 553 | 0.0 | 7.3 | 0.67 | -4.49 | 0.59 | 1.00 | 0.31 | 4.37 | 0.22 | -- | -- | |
| ½ | 2 | -55582 | 3331 | -17 | -112 | 0.0 | -- | 0.81 | -4.28 | 0.47 | 1.00 | 0.26 | 4.21 | 0.18 | -- | -- | |
| 0 | 2 | -58203 | 8496 | -330 | -437 | -- | 0.8 | 0.98 | -4.33 | 0.48 | 1.00 | 0.63 | 4.25 | 0.45 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -22934 | 230 | 478 | 0 | 0.0 | 6.6 | 0.69 | -3.89 | 0.50 | 1.00 | 0.04 | 3.92 | 0.03 | -- | -- | |
| ½ | 2 | -35152 | 241 | -280 | 0 | 0.8 | -- | 0.80 | -5.96 | 0.66 | 1.00 | 0.04 | 5.47 | 0.02 | -- | -- | |
| 0 | 2 | -39773 | 2849 | -149 | 0 | -- | 0.0 | 1.00 | -6.75 | 0.75 | 1.00 | 0.48 | 6.06 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -24461 | 5168 | -177 | -2406 | 0.0 | 7.4 | 0.60 | -4.32 | 0.64 | 1.00 | 0.91 | 4.24 | 0.65 | -- | -- | |
| ½ | 2 | -43806 | 3880 | 1 | -407 | 0.0 | -- | 0.75 | -3.87 | 0.46 | 1.00 | 0.34 | 3.90 | 0.26 | -- | -- | |
| 0 | 2 | -20433 | 1738 | 4 | 203 | -- | 1.0 | 0.96 | -3.61 | 0.44 | 1.00 | 0.31 | 3.71 | 0.25 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -118960 | 6710 | -544 | 25274 | 0.0 | 3.1 | 0.73 | -3.53 | 0.63 | 1.00 | 0.20 | 3.31 | 0.18 | -- | -- | |
| ½ | 2 | -137995 | 9995 | 1412 | 20672 | 0.0 | -- | 0.84 | -3.96 | 0.61 | 1.00 | 0.29 | 3.63 | 0.24 | -- | -- | |
| 0 | 2 | -151712 | 15463 | 2289 | 4960 | -- | 3.3 | 0.98 | -4.44 | 0.70 | 1.00 | 0.45 | 3.99 | 0.34 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -56011 | 614 | -1146 | 3872 | 0.0 | 6.5 | 0.67 | -4.70 | 0.62 | 1.00 | 0.05 | 4.52 | 0.03 | -- | -- | |
| ½ | 2 | -70959 | 1987 | -86 | -1947 | 0.1 | -- | 0.80 | -5.95 | 0.66 | 1.00 | 0.17 | 5.46 | 0.09 | -- | -- | |
| 0 | 2 | -73385 | 3835 | 1066 | -3921 | -- | 5.3 | 0.89 | -6.15 | 0.76 | 1.00 | 0.32 | 5.61 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -23908 | 1113 | 507 | 474 | 0.0 | 2.6 | 0.75 | -1.65 | 0.28 | 1.00 | 0.08 | 1.90 | 0.12 | -- | -- | |
| ½ | 2 | -40053 | 2692 | 126 | -913 | 0.0 | -- | 0.86 | -2.76 | 0.42 | 1.00 | 0.19 | 2.73 | 0.20 | -- | -- | |
| 0 | 2 | -45065 | 3127 | -501 | 157 | -- | 0.3 | 0.99 | -3.11 | 0.48 | 1.00 | 0.22 | 2.99 | 0.22 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -11678 | 252 | -0 | 289 | 0.0 | 4.4 | 0.69 | -2.35 | 0.45 | 1.00 | 0.05 | 2.42 | 0.06 | -- | -- | |
| ½ | 2 | -18339 | 705 | -2 | -47 | 0.0 | -- | 0.81 | -3.69 | 0.59 | 1.00 | 0.14 | 3.43 | 0.12 | -- | -- | |
| 0 | 2 | -25294 | 4649 | 61 | -525 | -- | 2.1 | 0.91 | -5.09 | 0.89 | 1.00 | 0.94 | 4.48 | 0.63 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -71553 | 7172 | -251 | -3681 | 0.0 | 2.7 | 0.75 | -2.97 | 0.52 | 1.00 | 0.30 | 2.88 | 0.31 | -- | -- | |
| ½ | 2 | -131793 | 8725 | -262 | 9361 | 0.0 | -- | 0.85 | -3.68 | 0.56 | 1.00 | 0.24 | 3.42 | 0.21 | -- | -- | |
| 0 | 2 | -88159 | 7631 | -206 | 104 | -- | 0.1 | 1.00 | -4.29 | 0.66 | 1.00 | 0.37 | 3.88 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -35307 | 3593 | 296 | 765 | 0.0 | 2.0 | 0.78 | -2.74 | 0.46 | 1.00 | 0.28 | 2.72 | 0.31 | -- | -- | |
| ½ | 2 | -54689 | 5650 | 158 | 893 | 0.0 | -- | 0.87 | -3.13 | 0.47 | 1.00 | 0.32 | 3.00 | 0.32 | -- | -- | |
| 0 | 2 | -51044 | 5790 | 361 | 55 | -- | 0.1 | 1.00 | -3.70 | 0.56 | 1.00 | 0.42 | 3.44 | 0.37 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -34845 | 6412 | -529 | -2795 | 0.0 | 2.3 | 0.74 | -2.81 | 0.49 | 1.00 | 0.52 | 2.77 | 0.56 | -- | -- | |
| ½ | 2 | -73941 | 11134 | -139 | -7542 | 0.0 | -- | 0.84 | -3.04 | 0.47 | 1.00 | 0.46 | 2.94 | 0.47 | -- | -- | |
| 0 | 2 | -59577 | 9996 | 927 | -1843 | -- | 3.1 | 0.96 | -3.64 | 0.59 | 1.00 | 0.61 | 3.39 | 0.54 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -22438 | 1916 | 24 | -87 | 0.0 | 4.1 | 0.67 | -2.61 | 0.51 | 1.00 | 0.22 | 2.62 | 0.26 | -- | -- | |
| ½ | 2 | -29985 | 5665 | 130 | 83 | 0.0 | -- | 0.80 | -3.43 | 0.56 | 1.00 | 0.65 | 3.23 | 0.60 | -- | -- | |
| 0 | 2 | -38094 | 7736 | -165 | 329 | -- | 0.9 | 0.98 | -4.36 | 0.72 | 1.00 | 0.89 | 3.93 | 0.68 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 390.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -25810 | 3176 | 1016 | 63 | 0.0 | 4.2 | 0.69 | -1.84 | 0.35 | 1.00 | 0.23 | 2.04 | 0.33 | -- | -- | |
| ½ | 2 | -44705 | 5929 | 470 | -2888 | 0.0 | -- | 0.82 | -2.35 | 0.38 | 1.00 | 0.31 | 2.42 | 0.39 | -- | -- | |
| 0 | 2 | -40316 | 5639 | -921 | 31 | -- | 0.1 | 1.00 | -2.57 | 0.41 | 1.00 | 0.36 | 2.59 | 0.42 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -13160 | 2176 | -570 | 0 | 0.0 | 8.5 | 0.57 | -3.35 | 0.77 | 1.00 | 0.55 | 3.17 | 0.52 | -- | -- | |
| ½ | 2 | -30723 | 3450 | -475 | 166 | 0.0 | -- | 0.73 | -3.88 | 0.70 | 1.00 | 0.44 | 3.57 | 0.37 | -- | -- | |
| 0 | 2 | -19742 | 2609 | 815 | -20 | -- | 0.1 | 1.00 | -3.87 | 0.70 | 1.00 | 0.51 | 3.56 | 0.43 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -29282 | 1508 | -2824 | 461 | 0.0 11.6 | 0.49 | -2.90 | 0.53 | 1.00 | 0.15 | 3.17 | 0.14 | -- | -- | |
| ½ | 2 | -41563 | 802 | -510 | -546 | 1.2 -- | 0.64 | -4.84 | 0.67 | 1.00 | 0.09 | 4.63 | 0.06 | -- | -- | |
| 0 | 2 | -42903 | 1069 | 2396 | -1199 | -- 2.8 | 0.93 | -5.00 | 0.74 | 1.00 | 0.12 | 4.75 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -60843 | 3498 | -1885 | -4364 | 0.0 | 4.1 | 0.69 | -2.53 | 0.48 | 1.00 | 0.15 | 2.56 | 0.17 | -- | -- | |
| ½ | 2 | -66962 | 4247 | 278 | -2805 | 0.0 | -- | 0.82 | -2.78 | 0.44 | 1.00 | 0.18 | 2.75 | 0.19 | -- | -- | |
| 0 | 2 | -73492 | 6095 | 3007 | -963 | -- | 1.3 | 0.99 | -3.05 | 0.49 | 1.00 | 0.25 | 2.95 | 0.26 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -3361 | 131 | 9 | 0 | 0.0 | 5.4 | 0.66 | -2.01 | 0.40 | 1.00 | 0.08 | 2.17 | 0.11 | -- | -- | |
| ½ | 2 | -13967 | 458 | 99 | 0 | 0.0 | -- | 0.79 | -2.09 | 0.34 | 1.00 | 0.07 | 2.23 | 0.09 | -- | -- | |
| 0 | 2 | -8832 | 464 | 80 | 0 | -- | 0.0 | 1.00 | -2.64 | 0.44 | 1.00 | 0.14 | 2.64 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -5688 | 390 | 779 | 0 | 0.0 2.0 | 0.81 | -2.08 | 0.33 | 1.00 | 0.14 | 2.22 | 0.19 | -- | -- | |
| ½ | 2 | -30397 | 3023 | -1904 | 0 | 0.0 -- | 0.90 | -2.77 | 0.40 | 1.00 | 0.28 | 2.74 | 0.30 | -- | -- | |
| 0 | 2 | -17090 | 3236 | 6 | 0 | -- 0.0 | 1.00 | -3.12 | 0.45 | 1.00 | 0.59 | 3.00 | 0.59 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -46130 | 7293 | -6592 | 2718 | 0.0 | 7.6 | 0.64 | -2.62 | 0.53 | 1.00 | 0.41 | 2.62 | 0.47 | -- | -- | |
| ½ | 2 | -75882 | 13272 | -3780 | -136 | 0.0 | -- | 0.78 | -2.75 | 0.46 | 1.00 | 0.48 | 2.72 | 0.53 | -- | -- | |
| 0 | 2 | -52889 | 11080 | 3424 | -1575 | -- | 3.0 | 0.96 | -3.01 | 0.52 | 1.00 | 0.63 | 2.91 | 0.65 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -91745 | 8586 | -3101 | -3339 | 0.0 | 4.2 | 0.73 | -2.45 | 0.44 | 1.00 | 0.23 | 2.50 | 0.28 | -- | -- | |
| ½ | 2 | -113269 | 8562 | -874 | 12377 | 0.0 | -- | 0.85 | -3.02 | 0.46 | 1.00 | 0.23 | 2.93 | 0.23 | -- | -- | |
| 0 | 2 | -125747 | 6887 | 1667 | 7212 | -- | 5.7 | 0.96 | -3.36 | 0.53 | 1.00 | 0.18 | 3.18 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -57489 | 6783 | 15337 | -6201 | 0.0 | 15.8 | 0.52 | -4.25 | 0.72 | 1.00 | 0.50 | 4.18 | 0.36 | -- | -- | |
| ½ | 2 | -75742 | 3305 | 4760 | 204 | 6.3 | -- | 0.57 | -5.59 | 0.86 | 1.00 | 0.24 | 5.20 | 0.14 | -- | -- | |
| 0 | 2 | -79934 | 3676 | -5501 | -2726 | -- | 3.4 | 0.93 | -5.90 | 0.98 | 1.00 | 0.27 | 5.43 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -19313 | 2834 | -2515 | 0 | 0.0 | 6.4 | 0.68 | -2.33 | 0.30 | 1.00 | 0.34 | 2.75 | 0.37 | -- | -- | |
| ½ | 2 | -24521 | 6245 | -625 | 0 | 2.5 | -- | 0.73 | -2.96 | 0.36 | 1.00 | 0.75 | 3.22 | 0.70 | -- | -- | |
| 0 | 2 | -26611 | 8243 | 1140 | 0 | -- | 0.0 | 1.00 | -3.21 | 0.39 | 1.00 | 0.99 | 3.41 | 0.88 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -13112 | 4319 | -379 | 0 | 0.0 | 0.3 | 0.89 | -3.06 | 0.30 | 1.00 | 1.01 | 3.30 | 0.92 | -- | -- | |
| ½ | 2 | -23585 | 4310 | -84 | 0 | 0.4 | -- | 0.90 | -5.51 | 0.54 | 1.00 | 1.01 | 5.13 | 0.59 | -- | -- | |
| 0 | 2 | -17408 | 1742 | 102 | 0 | -- | 0.0 | 1.00 | -4.07 | 0.40 | 1.00 | 0.41 | 4.05 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -22250 | 3692 | -290 | -688 | 0.0 | 12.4 | 0.50 | -2.32 | 0.61 | 1.00 | 0.38 | 2.40 | 0.48 | -- | -- | |
| ½ | 2 | -45899 | 5064 | 63 | 1187 | 0.0 | -- | 0.68 | -4.78 | 0.91 | 1.00 | 0.53 | 4.25 | 0.37 | -- | -- | |
| 0 | 2 | -47045 | 2087 | 331 | 797 | -- | 1.7 | 0.96 | -4.90 | 0.97 | 1.00 | 0.22 | 4.34 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -29712 | 577 | 2799 | 865 | 0.0 | 12.4 | 0.50 | -2.93 | 0.77 | 1.00 | 0.06 | 2.86 | 0.06 | -- | -- | |
| ½ | 2 | -35709 | 1198 | 138 | 0 | 0.0 | -- | 0.68 | -3.76 | 0.72 | 1.00 | 0.13 | 3.48 | 0.11 | -- | -- | |
| 0 | 2 | -39249 | 5701 | -2222 | 0 | -- | 0.0 | 1.00 | -4.14 | 0.79 | 1.00 | 0.60 | 3.76 | 0.48 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -25849 | 1372 | -185 | 515 | 0.0 | 13.3 | 0.51 | -2.24 | 0.58 | 1.00 | 0.12 | 2.34 | 0.15 | -- | -- | |
| ½ | 2 | -38550 | 3245 | -250 | -1693 | 0.0 | -- | 0.69 | -3.34 | 0.63 | 1.00 | 0.28 | 3.17 | 0.27 | -- | -- | |
| 0 | 2 | -40171 | 2223 | -6 | -293 | -- | 0.7 | 0.98 | -3.48 | 0.67 | 1.00 | 0.19 | 3.27 | 0.18 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -82103 | 2150 | -3319 | -2205 | 0.0 | 13.3 | 0.51 | -2.18 | 0.56 | 1.00 | 0.06 | 2.30 | 0.07 | -- | -- | |
| ½ | 2 | -107107 | 1587 | -2387 | -4808 | 0.0 | -- | 0.69 | -2.85 | 0.54 | 1.00 | 0.04 | 2.79 | 0.05 | -- | -- | |
| 0 | 2 | -119573 | 4892 | -2892 | -4153 | -- | 3.5 | 0.98 | -3.18 | 0.62 | 1.00 | 0.13 | 3.04 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 133 Descrizione: Maschio murario n. 133
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -21859 | 3109 | -1940 | 0 | 0.0 | 5.6 | 0.69 | -2.38 | 0.45 | 1.00 | 0.34 | 2.44 | 0.42 | -- | -- | |
| ½ | 2 | -26119 | 4085 | -526 | 0 | 0.0 | -- | 0.82 | -2.84 | 0.45 | 1.00 | 0.44 | 2.79 | 0.48 | -- | -- | |
| 0 | 2 | -29403 | 5024 | 63 | 0 | -- | 0.0 | 1.00 | -3.20 | 0.51 | 1.00 | 0.55 | 3.06 | 0.54 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 134 Descrizione: Maschio murario n. 134
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -27059 | 906 | -3611 | 0 | 0.0 | 6.3 | 0.67 | -2.51 | 0.49 | 1.00 | 0.08 | 2.54 | 0.10 | -- | -- | |
| ½ | 2 | -29903 | 1644 | -404 | 0 | 0.0 | -- | 0.81 | -2.78 | 0.45 | 1.00 | 0.15 | 2.74 | 0.17 | -- | -- | |
| 0 | 2 | -30000 | 863 | 2421 | 0 | -- | 0.0 | 1.00 | -2.79 | 0.45 | 1.00 | 0.08 | 2.75 | 0.09 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 390.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -51762 | 7735 | -6001 | 3654 | 0.0 5.3 | 0.70 | -2.47 | 0.46 | 1.00 | 0.37 | 2.51 | 0.44 | -- | -- | |
| ½ | 2 | -62445 | 9880 | -1321 | -2905 | 0.0 -- | 0.83 | -2.98 | 0.47 | 1.00 | 0.47 | 2.89 | 0.49 | -- | -- | |
| 0 | 2 | -61699 | 5072 | 5585 | -4301 | -- 7.0 | 0.92 | -2.93 | 0.50 | 1.00 | 0.24 | 2.86 | 0.25 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 390.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -18836 | 3623 | -2381 | -40 | 0.0 | 1.1 | 0.85 | -3.43 | 0.52 | 1.00 | 0.66 | 3.23 | 0.61 | -- | -- | |
| ½ | 2 | -50915 | 680 | -1312 | -749 | 0.0 | -- | 0.90 | -3.20 | 0.47 | 1.00 | 0.04 | 3.06 | 0.04 | -- | -- | |
| 0 | 2 | -29594 | 1198 | 1646 | 124 | -- | 0.4 | 0.99 | -3.72 | 0.55 | 1.00 | 0.15 | 3.45 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -5377 | 92 | -332 | 0 | 0.0 13.3 | 0.50 | -0.88 | 0.23 | 1.00 | 0.02 | 1.32 | 0.03 | -- | -- | |
| ½ | 2 | -22733 | 1880 | -156 | -340 | 0.0 -- | 0.69 | -1.75 | 0.33 | 1.00 | 0.14 | 1.97 | 0.22 | -- | -- | |
| 0 | 2 | -10337 | 1448 | -29 | 0 | -- 0.0 | 1.00 | -1.70 | 0.32 | 1.00 | 0.24 | 1.93 | 0.37 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -36281 | 8696 | -25156 | -3467 | 0.0 | 17.4 | 0.52 | -1.27 | 0.21 | 1.00 | 0.30 | 1.95 | 0.47 | -- | -- | |
| ½ | 2 | -94535 | 7226 | -18762 | -13196 | 19.8 | -- | 0.35 | -1.65 | 0.41 | 1.00 | 0.13 | 2.24 | 0.17 | -- | -- | |
| 0 | 2 | -59340 | 3612 | 10286 | -1875 | -- | 3.2 | 0.97 | -2.07 | 0.54 | 1.00 | 0.13 | 2.55 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -28366 | 1039 | -12695 | 167 | 0.0 13.3 | 0.50 | -2.56 | 0.67 | 1.00 | 0.09 | 2.58 | 0.11 | -- | -- | |
| ½ | 2 | -52991 | 1448 | -6530 | 927 | 0.0 -- | 0.69 | -2.39 | 0.46 | 1.00 | 0.07 | 2.45 | 0.08 | -- | -- | |
| 0 | 2 | -31163 | 724 | 8974 | -245 | -- 0.8 | 0.98 | -2.81 | 0.54 | 1.00 | 0.07 | 2.77 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -37271 | 6678 | -25292 | 1910 | 0.0 | 17.4 | 0.52 | -1.25 | 0.21 | 1.00 | 0.22 | 1.94 | 0.35 | -- | -- | |
| ½ | 2 | -104385 | 5776 | -14857 | 7388 | 14.2 | -- | 0.44 | -1.75 | 0.35 | 1.00 | 0.10 | 2.31 | 0.13 | -- | -- | |
| 0 | 2 | -64760 | 2888 | 15606 | -591 | -- | 0.9 | 0.99 | -2.17 | 0.44 | 1.00 | 0.10 | 2.63 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -26848 | 5301 | -12414 | 271 | 0.0 13.3 | 0.50 | -2.01 | 0.52 | 1.00 | 0.40 | 2.17 | 0.55 | -- | -- | |
| ½ | 2 | -57648 | 1559 | -5429 | 2849 | 0.0 -- | 0.69 | -2.16 | 0.41 | 1.00 | 0.06 | 2.28 | 0.08 | -- | -- | |
| 0 | 2 | -34446 | 779 | 9816 | -308 | -- 0.9 | 0.98 | -2.58 | 0.50 | 1.00 | 0.06 | 2.59 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -33605 | 8450 | -21405 | 3382 | 0.0 | 17.4 | 0.52 | -1.11 | 0.19 | 1.00 | 0.28 | 1.83 | 0.46 | -- | -- | |
| ½ | 2 | -96576 | 8346 | -13046 | 11221 | 13.5 | -- | 0.45 | -1.60 | 0.31 | 1.00 | 0.14 | 2.20 | 0.19 | -- | -- | |
| 0 | 2 | -60998 | 4172 | 12670 | -152 | -- | 0.2 | 1.00 | -2.02 | 0.40 | 1.00 | 0.14 | 2.52 | 0.16 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -18372 | 4484 | -6965 | 1675 | 0.0 13.3 | 0.50 | -1.31 | 0.34 | 1.00 | 0.32 | 1.64 | 0.58 | -- | -- | |
| ½ | 2 | -48258 | 8062 | -3112 | 6050 | 0.0 -- | 0.69 | -1.72 | 0.33 | 1.00 | 0.29 | 1.95 | 0.44 | -- | -- | |
| 0 | 2 | -30033 | 4030 | 5227 | -1280 | -- 4.3 | 0.93 | -2.14 | 0.44 | 1.00 | 0.29 | 2.27 | 0.38 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -12938 | 1083 | -156 | 346 | 0.0 | 17.4 | 0.52 | -0.43 | 0.07 | 1.00 | 0.04 | 1.32 | 0.08 | -- | -- | |
| ½ | 2 | -69857 | 473 | -870 | -1920 | 1.2 | -- | 0.67 | -1.16 | 0.15 | 1.00 | 0.01 | 1.87 | 0.01 | -- | -- | |
| 0 | 2 | -47575 | 237 | -359 | -1164 | -- | 2.4 | 0.97 | -1.59 | 0.21 | 1.00 | 0.01 | 2.19 | 0.01 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -3547 | 1879 | 32 | 0 | 0.0 | 13.3 | 0.50 | -0.43 | 0.11 | 1.00 | 0.23 | 0.98 | 0.70 | -- | -- | |
| ½ | 2 | -12732 | 6379 | 108 | -100 | 0.0 | -- | 0.69 | -0.73 | 0.14 | 1.00 | 0.36 | 1.20 | 0.91 | -- | -- | |
| 0 | 2 | -13825 | 1660 | -375 | 0 | -- | 0.0 | 1.00 | -1.68 | 0.32 | 1.00 | 0.20 | 1.92 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -9216 | 2114 | -41 | -468 | 1.1 | 4.4 | 0.71 | -0.99 | 0.18 | 1.00 | 0.23 | 1.41 | 0.49 | -- | -- | |
| ½ | 2 | -35726 | 1108 | 81 | 799 | 0.0 | -- | 0.83 | -1.93 | 0.30 | 1.00 | 0.06 | 2.11 | 0.09 | -- | -- | |
| 0 | 2 | -26013 | 1751 | 241 | -213 | -- | 0.8 | 0.98 | -2.81 | 0.45 | 1.00 | 0.19 | 2.76 | 0.21 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -9669 | 140 | -1767 | 0 | 0.0 | 12.3 | 0.52 | -0.96 | 0.16 | 1.00 | 0.01 | 1.72 | 0.02 | -- | -- | |
| ½ | 2 | -49217 | 2240 | -1263 | 0 | 2.6 | -- | 0.63 | -2.44 | 0.34 | 1.00 | 0.11 | 2.83 | 0.12 | -- | -- | |
| 0 | 2 | -28734 | 1120 | 1853 | 0 | -- | 0.0 | 1.00 | -2.85 | 0.40 | 1.00 | 0.11 | 3.14 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -38603 | 1780 | -5403 | -3397 | 0.5 10.1 | 0.53 | -1.53 | 0.37 | 1.00 | 0.07 | 1.80 | 0.12 | -- | -- | |
| ½ | 2 | -122721 | 2087 | -4118 | -13985 | 0.0 -- | 0.69 | -2.42 | 0.46 | 1.00 | 0.04 | 2.48 | 0.05 | -- | -- | |
| 0 | 2 | -71728 | 1044 | 3478 | -6083 | -- 8.5 | 0.93 | -2.83 | 0.57 | 1.00 | 0.04 | 2.79 | 0.04 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -5545 | 191 | -1512 | 0 | 2.1 5.9 | 0.69 | -0.85 | 0.16 | 1.00 | 0.03 | 1.30 | 0.07 | -- | -- | |
| ½ | 2 | -26969 | 1323 | -2040 | 0 | 0.0 -- | 0.82 | -2.06 | 0.33 | 1.00 | 0.10 | 2.21 | 0.14 | -- | -- | |
| 0 | 2 | -16164 | 662 | 2014 | 0 | -- 0.0 | 1.00 | -2.47 | 0.39 | 1.00 | 0.10 | 2.51 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -30108 | 1292 | -4190 | 3327 | 0.8 9.4 | 0.56 | -1.72 | 0.40 | 1.00 | 0.07 | 1.95 | 0.11 | -- | -- | |
| ½ | 2 | -82274 | 1115 | -2483 | 1153 | 0.0 -- | 0.71 | -2.35 | 0.43 | 1.00 | 0.03 | 2.42 | 0.04 | -- | -- | |
| 0 | 2 | -49063 | 4730 | 3088 | -1922 | -- 3.9 | 0.95 | -2.80 | 0.54 | 1.00 | 0.27 | 2.76 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -4112 | 1076 | -46 | 0 | 2.1 | 4.5 | 0.77 | -0.78 | 0.13 | 1.00 | 0.20 | 1.24 | 0.49 | -- | -- | |
| ½ | 2 | -23179 | 4626 | -39 | 0 | 0.0 | -- | 0.87 | -2.19 | 0.33 | 1.00 | 0.44 | 2.30 | 0.57 | -- | -- | |
| 0 | 2 | -18279 | 771 | 22 | 0 | -- | 0.0 | 1.00 | -3.45 | 0.52 | 1.00 | 0.15 | 3.25 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -11323 | 1503 | 181 | -2000 | 3.2 | 4.9 | 0.80 | -1.06 | 0.17 | 1.00 | 0.14 | 1.45 | 0.29 | -- | -- | |
| ½ | 2 | -83743 | 14909 | -288 | -6227 | 0.0 | -- | 0.88 | -2.54 | 0.38 | 1.00 | 0.45 | 2.56 | 0.53 | -- | -- | |
| 0 | 2 | -20882 | 2400 | -47 | 0 | -- | 0.0 | 1.00 | -1.95 | 0.29 | 1.00 | 0.22 | 2.13 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -5570 | 1020 | 56 | 0 | 1.3 | 4.9 | 0.72 | -0.58 | 0.11 | 1.00 | 0.11 | 1.10 | 0.29 | -- | -- | |
| ½ | 2 | -45948 | 277 | -314 | -4 | 0.0 | -- | 0.84 | -1.45 | 0.23 | 1.00 | 0.01 | 1.75 | 0.02 | -- | -- | |
| 0 | 2 | -8601 | 411 | -163 | 0 | -- | 0.0 | 1.00 | -1.46 | 0.23 | 1.00 | 0.07 | 1.75 | 0.12 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -5923 | 704 | 9 | -3 | 0.0 | 12.4 | 0.49 | -0.61 | 0.16 | 1.00 | 0.07 | 1.12 | 0.19 | -- | -- | |
| ½ | 2 | -31234 | 2826 | -121 | -24 | 0.0 | -- | 0.68 | -1.61 | 0.31 | 1.00 | 0.15 | 1.86 | 0.23 | -- | -- | |
| 0 | 2 | -15475 | 1221 | 4 | 494 | -- | 3.2 | 0.93 | -1.59 | 0.33 | 1.00 | 0.13 | 1.85 | 0.20 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -15902 | 894 | -4376 | 697 | 0.0 | 12.4 | 0.49 | -1.66 | 0.44 | 1.00 | 0.09 | 1.90 | 0.15 | -- | -- | |
| ½ | 2 | -40815 | 5764 | -3224 | 1774 | 0.0 | -- | 0.68 | -2.13 | 0.41 | 1.00 | 0.30 | 2.25 | 0.40 | -- | -- | |
| 0 | 2 | -24335 | 2883 | 3746 | -829 | -- | 3.4 | 0.92 | -2.54 | 0.53 | 1.00 | 0.30 | 2.56 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -16137 | 2680 | -4491 | -266 | 0.0 12.4 | 0.49 | -1.86 | 0.49 | 1.00 | 0.31 | 2.05 | 0.45 | -- | -- | |
| ½ | 2 | -39618 | 3830 | -2793 | -1923 | 0.0 -- | 0.68 | -2.28 | 0.44 | 1.00 | 0.22 | 2.37 | 0.28 | -- | -- | |
| 0 | 2 | -23367 | 1918 | 3643 | 988 | -- 4.2 | 0.89 | -2.69 | 0.58 | 1.00 | 0.22 | 2.68 | 0.25 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -6299 | 307 | 163 | 0 | 0.0 | 12.4 | 0.49 | -1.10 | 0.29 | 1.00 | 0.05 | 1.49 | 0.11 | -- | -- | |
| ½ | 2 | -14046 | 1221 | 335 | 0 | 0.0 | -- | 0.68 | -2.46 | 0.47 | 1.00 | 0.21 | 2.51 | 0.26 | -- | -- | |
| 0 | 2 | -14503 | 134 | 182 | 0 | -- | 0.0 | 1.00 | -2.54 | 0.49 | 1.00 | 0.02 | 2.57 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -23783 | 2793 | -1744 | 884 | 0.0 | 5.1 | 0.64 | -2.07 | 0.42 | 1.00 | 0.24 | 2.21 | 0.33 | -- | -- | |
| ½ | 2 | -37359 | 2421 | -939 | 3331 | 0.0 | -- | 0.77 | -3.07 | 0.52 | 1.00 | 0.20 | 2.96 | 0.20 | -- | -- | |
| 0 | 2 | -42606 | 2388 | -60 | 1558 | -- | 3.7 | 0.94 | -3.41 | 0.61 | 1.00 | 0.19 | 3.22 | 0.18 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -28704 | 13673 | -9259 | -22862 | 0.0 13.3 | 0.50 | -1.08 | 0.19 | 1.00 | 0.51 | 1.81 | 0.85 | -- | -- | |
| ½ | 2 | -95644 | 3239 | -16833 | -10283 | 0.0 -- | 0.69 | -1.80 | 0.23 | 1.00 | 0.06 | 2.35 | 0.08 | -- | -- | |
| 0 | 2 | -59035 | 1527 | -4299 | -8323 | -- 14.1 | 0.87 | -2.22 | 0.33 | 1.00 | 0.06 | 2.66 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -14652 | 16435 | -4603 | -5327 | 0.0 | 13.3 | 0.50 | -0.91 | 0.16 | 1.00 | 1.02 | 1.68 | 1.82 | -- | -- | |
| ½ | 2 | -62075 | 1018 | -5108 | -9733 | 0.0 | -- | 0.69 | -1.93 | 0.25 | 1.00 | 0.03 | 2.45 | 0.04 | -- | -- | |
| 0 | 2 | -37807 | 510 | 6989 | -5605 | -- | 14.8 | 0.77 | -2.35 | 0.39 | 1.00 | 0.03 | 2.76 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -31890 | 12737 | -9954 | 5442 | 0.0 | 13.3 | 0.50 | -2.32 | 0.41 | 1.00 | 0.93 | 2.74 | 1.01 | -- | -- | |
| ½ | 2 | -61531 | 2827 | -5018 | 1920 | 0.0 | -- | 0.69 | -2.24 | 0.29 | 1.00 | 0.10 | 2.68 | 0.12 | -- | -- | |
| 0 | 2 | -36556 | 1765 | 8544 | -642 | -- | 1.8 | 0.97 | -2.66 | 0.35 | 1.00 | 0.13 | 2.99 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -15992 | 14921 | -6516 | -2205 | 0.0 | 13.3 | 0.50 | -0.90 | 0.16 | 1.00 | 0.84 | 1.68 | 1.51 | -- | -- | |
| ½ | 2 | -61924 | 9438 | -5455 | -14124 | 0.0 | -- | 0.69 | -1.75 | 0.23 | 1.00 | 0.27 | 2.31 | 0.35 | -- | -- | |
| 0 | 2 | -38406 | 4719 | 3571 | -1280 | -- | 3.3 | 0.95 | -2.17 | 0.29 | 1.00 | 0.27 | 2.63 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -4999 | 3164 | -286 | 0 | 0.0 | 13.3 | 0.50 | -0.49 | 0.09 | 1.00 | 0.31 | 1.36 | 0.68 | -- | -- | |
| ½ | 2 | -26814 | 684 | -1427 | 0 | 0.0 | -- | 0.69 | -1.31 | 0.17 | 1.00 | 0.03 | 1.98 | 0.05 | -- | -- | |
| 0 | 2 | -19581 | 695 | 62 | 0 | -- | 0.0 | 1.00 | -1.91 | 0.25 | 1.00 | 0.07 | 2.43 | 0.08 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -3472 | 714 | -55 | 0 | 0.0 11.6 | 0.48 | -0.72 | 0.20 | 1.00 | 0.15 | 1.20 | 0.37 | -- | -- | |
| ½ | 2 | -10372 | 575 | -591 | 254 | 0.0 -- | 0.67 | -1.18 | 0.23 | 1.00 | 0.07 | 1.54 | 0.13 | -- | -- | |
| 0 | 2 | -15935 | 6 | 92 | -1117 | -- 7.0 | 0.86 | -1.47 | 0.34 | 1.00 | 0.00 | 1.76 | 0.00 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -9278 | 216 | -2150 | 1339 | 0.0 | 11.6 | 0.48 | -0.89 | 0.25 | 1.00 | 0.02 | 1.33 | 0.05 | -- | -- | |
| ½ | 2 | -27494 | 38 | -3944 | -414 | 0.0 | -- | 0.67 | -1.57 | 0.31 | 1.00 | 0.00 | 1.84 | 0.00 | -- | -- | |
| 0 | 2 | -21748 | 182 | 1636 | 1540 | -- | 7.1 | 0.89 | -1.62 | 0.36 | 1.00 | 0.01 | 1.88 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -9034 | 1182 | -4285 | -445 | 0.0 | 11.6 | 0.48 | -1.01 | 0.28 | 1.00 | 0.13 | 1.41 | 0.28 | -- | -- | |
| ½ | 2 | -38096 | 2613 | -4546 | -1461 | 0.0 | -- | 0.67 | -1.49 | 0.29 | 1.00 | 0.10 | 1.78 | 0.17 | -- | -- | |
| 0 | 2 | -31399 | 1298 | 1876 | -450 | -- | 1.4 | 0.98 | -2.00 | 0.40 | 1.00 | 0.08 | 2.16 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -12737 | 644 | -1878 | -1989 | 0.0 | 11.6 | 0.48 | -0.83 | 0.23 | 1.00 | 0.04 | 1.28 | 0.10 | -- | -- | |
| ½ | 2 | -23568 | 520 | -1152 | -451 | 0.0 | -- | 0.67 | -1.54 | 0.30 | 1.00 | 0.03 | 1.81 | 0.06 | -- | -- | |
| 0 | 2 | -30032 | 520 | 608 | 229 | -- | 0.8 | 0.99 | -1.96 | 0.39 | 1.00 | 0.03 | 2.13 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -11296 | 628 | -2011 | -95 | 0.0 | 11.6 | 0.48 | -1.17 | 0.32 | 1.00 | 0.06 | 1.54 | 0.13 | -- | -- | |
| ½ | 2 | -23396 | 1655 | -1258 | -418 | 0.0 | -- | 0.67 | -1.62 | 0.32 | 1.00 | 0.11 | 1.88 | 0.18 | -- | -- | |
| 0 | 2 | -20637 | 825 | 1057 | 156 | -- | 0.8 | 0.98 | -2.13 | 0.42 | 1.00 | 0.09 | 2.26 | 0.11 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -4752 | 1343 | 13 | -444 | 0.0 | 11.6 | 0.48 | -0.43 | 0.12 | 1.00 | 0.12 | 0.98 | 0.37 | -- | -- | |
| ½ | 2 | -25540 | 2437 | -40 | -1532 | 0.0 | -- | 0.67 | -1.16 | 0.23 | 1.00 | 0.11 | 1.53 | 0.22 | -- | -- | |
| 0 | 2 | -16400 | 1103 | -42 | 139 | -- | 0.8 | 0.98 | -1.50 | 0.30 | 1.00 | 0.10 | 1.78 | 0.17 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 2 | -4024 | 493 | 14 | 217 | 0.0 | 11.6 | 0.48 | -0.36 | 0.10 | 1.00 | 0.04 | 0.93 | 0.14 | -- | -- | |
| ½ | 2 | -21545 | 853 | -110 | 759 | 0.0 | -- | 0.67 | -0.96 | 0.19 | 1.00 | 0.04 | 1.38 | 0.08 | -- | -- | |
| 0 | 2 | -16523 | 115 | -81 | -206 | -- | 1.2 | 0.98 | -1.48 | 0.30 | 1.00 | 0.01 | 1.77 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -6139 | 1496 | -15 | 296 | 0.0 | 11.6 | 0.48 | -0.46 | 0.13 | 1.00 | 0.11 | 1.01 | 0.34 | -- | -- | |
| ½ | 2 | -34477 | 1185 | -109 | 1409 | 0.0 | -- | 0.67 | -1.30 | 0.26 | 1.00 | 0.04 | 1.64 | 0.08 | -- | -- | |
| 0 | 2 | -22802 | 592 | -212 | -47 | -- | 0.2 | 1.00 | -1.73 | 0.34 | 1.00 | 0.04 | 1.95 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -5338 | 3468 | 2 | 729 | 0.0 11.6 | 0.48 | -0.43 | 0.12 | 1.00 | 0.28 | 0.98 | 0.85 | -- | -- | |
| ½ | 2 | -30254 | 3252 | 135 | 3379 | 0.0 -- | 0.67 | -1.21 | 0.24 | 1.00 | 0.13 | 1.57 | 0.25 | -- | -- | |
| 0 | 2 | -22035 | 1923 | -28 | -394 | -- 1.8 | 0.97 | -1.76 | 0.36 | 1.00 | 0.15 | 1.98 | 0.23 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -24259 | 244 | -8097 | 4249 | 0.0 11.6 | 0.48 | -1.56 | 0.43 | 1.00 | 0.02 | 1.83 | 0.03 | -- | -- | |
| ½ | 2 | -59965 | 634 | -3759 | 1696 | 0.0 -- | 0.67 | -1.92 | 0.38 | 1.00 | 0.02 | 2.10 | 0.03 | -- | -- | |
| 0 | 2 | -36543 | 322 | 5707 | -971 | -- 2.7 | 0.96 | -2.34 | 0.48 | 1.00 | 0.02 | 2.42 | 0.03 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -5791 | 2047 | -841 | -203 | 0.0 | 11.6 | 0.48 | -0.36 | 0.10 | 1.00 | 0.13 | 0.93 | 0.41 | -- | -- | |
| ½ | 2 | -53469 | 1431 | -2299 | -1015 | 0.0 | -- | 0.67 | -1.66 | 0.33 | 1.00 | 0.04 | 1.91 | 0.07 | -- | -- | |
| 0 | 2 | -41039 | 988 | 1202 | -560 | -- | 1.4 | 0.98 | -2.55 | 0.51 | 1.00 | 0.06 | 2.57 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -21270 | 742 | -8401 | -826 | 0.0 | 11.6 | 0.48 | -1.75 | 0.48 | 1.00 | 0.06 | 1.97 | 0.09 | -- | -- | |
| ½ | 2 | -46840 | 5335 | -4286 | -2803 | 0.0 | -- | 0.67 | -1.92 | 0.38 | 1.00 | 0.22 | 2.10 | 0.31 | -- | -- | |
| 0 | 2 | -28548 | 2612 | 5448 | 625 | -- | 2.2 | 0.96 | -2.35 | 0.48 | 1.00 | 0.21 | 2.42 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -3904 | 2289 | -39 | 0 | 0.0 | 12.4 | 0.49 | -0.67 | 0.12 | 1.00 | 0.39 | 1.50 | 0.78 | -- | -- | |
| ½ | 2 | -18248 | 2731 | -276 | 0 | 1.5 | -- | 0.64 | -1.56 | 0.21 | 1.00 | 0.23 | 2.17 | 0.32 | -- | -- | |
| 0 | 2 | -9736 | 1628 | -79 | 0 | -- | 0.0 | 1.00 | -1.66 | 0.23 | 1.00 | 0.28 | 2.25 | 0.37 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -5258 | 319 | 51 | 0 | 0.0 | 4.7 | 0.67 | -1.56 | 0.30 | 1.00 | 0.09 | 1.83 | 0.16 | -- | -- | |
| ½ | 2 | -8643 | 2075 | -175 | 0 | 0.0 | -- | 0.80 | -2.57 | 0.42 | 1.00 | 0.62 | 2.58 | 0.72 | -- | -- | |
| 0 | 2 | -11793 | 950 | -23 | 0 | -- | 0.0 | 1.00 | -3.50 | 0.57 | 1.00 | 0.28 | 3.29 | 0.26 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -9779 | 501 | 134 | -153 | 0.0 | 3.1 | 0.72 | -1.14 | 0.21 | 1.00 | 0.06 | 1.52 | 0.12 | -- | -- | |
| ½ | 2 | -23290 | 2670 | -145 | -1521 | 0.0 | -- | 0.83 | -2.72 | 0.43 | 1.00 | 0.31 | 2.70 | 0.35 | -- | -- | |
| 0 | 2 | -24675 | 3784 | 388 | 982 | -- | 4.0 | 0.90 | -2.88 | 0.50 | 1.00 | 0.44 | 2.82 | 0.47 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -20843 | 162 | 288 | -1702 | 0.0 | 2.2 | 0.76 | -1.37 | 0.24 | 1.00 | 0.01 | 1.69 | 0.02 | -- | -- | |
| ½ | 2 | -36068 | 2079 | -467 | 587 | 0.0 | -- | 0.86 | -2.34 | 0.36 | 1.00 | 0.14 | 2.42 | 0.17 | -- | -- | |
| 0 | 2 | -42267 | 3971 | -15 | 1760 | -- | 4.2 | 0.94 | -2.77 | 0.45 | 1.00 | 0.26 | 2.74 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -27614 | 3358 | 643 | 2422 | 0.0 | 2.4 | 0.75 | -1.97 | 0.34 | 1.00 | 0.24 | 2.14 | 0.34 | -- | -- | |
| ½ | 2 | -41035 | 4966 | 583 | 4306 | 0.0 | -- | 0.85 | -2.93 | 0.45 | 1.00 | 0.35 | 2.86 | 0.37 | -- | -- | |
| 0 | 2 | -37438 | 3759 | 99 | -1170 | -- | 3.1 | 0.95 | -2.68 | 0.43 | 1.00 | 0.27 | 2.67 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -31458 | 5446 | 91 | 1004 | 0.0 | 11.5 | 0.54 | -2.87 | 0.47 | 1.00 | 0.50 | 3.15 | 0.47 | -- | -- | |
| ½ | 2 | -33329 | 8096 | -17 | 430 | 0.1 | -- | 0.70 | -3.04 | 0.38 | 1.00 | 0.74 | 3.28 | 0.68 | -- | -- | |
| 0 | 2 | -32278 | 10083 | 216 | -247 | -- | 0.8 | 0.98 | -2.94 | 0.37 | 1.00 | 0.92 | 3.21 | 0.86 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -9948 | 1963 | 14 | 0 | 0.0 | 7.1 | 0.60 | -2.17 | 0.47 | 1.00 | 0.43 | 2.29 | 0.56 | -- | -- | |
| ½ | 2 | -14674 | 3275 | -44 | 0 | 0.0 | -- | 0.75 | -3.20 | 0.56 | 1.00 | 0.71 | 3.06 | 0.70 | -- | -- | |
| 0 | 2 | -16375 | 3601 | -253 | 0 | -- | 0.0 | 1.00 | -3.57 | 0.62 | 1.00 | 0.79 | 3.34 | 0.71 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -19203 | 8970 | -362 | -3180 | 0.0 12.4 | 0.49 | -3.17 | 0.57 | 1.00 | 1.48 | 3.37 | 1.31 | -- | -- | |
| ½ | 2 | -26623 | 7024 | -84 | -606 | 0.3 -- | 0.67 | -2.20 | 0.29 | 1.00 | 0.58 | 2.65 | 0.66 | -- | -- | |
| 0 | 2 | -8330 | 5582 | 135 | 1040 | -- 12.5 | 0.61 | -1.37 | 0.30 | 1.00 | 0.92 | 2.03 | 1.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -66688 | 1069 | -6836 | 13189 | 0.0 | 5.8 | 0.61 | -2.14 | 0.46 | 1.00 | 0.03 | 2.27 | 0.05 | -- | -- | |
| ½ | 2 | -83839 | 3736 | -1380 | -2714 | 0.0 | -- | 0.75 | -2.65 | 0.46 | 1.00 | 0.12 | 2.65 | 0.13 | -- | -- | |
| 0 | 2 | -93884 | 6385 | 1151 | -4489 | -- | 4.8 | 0.97 | -3.06 | 0.55 | 1.00 | 0.21 | 2.95 | 0.21 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -38102 | 9383 | -2069 | 5067 | 0.0 | 12.4 | 0.49 | -3.41 | 0.61 | 1.00 | 0.84 | 3.56 | 0.71 | -- | -- | |
| ½ | 2 | -36414 | 6928 | 307 | 1086 | 0.8 | -- | 0.66 | -3.13 | 0.42 | 1.00 | 0.59 | 3.34 | 0.53 | -- | -- | |
| 0 | 2 | -30354 | 3006 | 1547 | -559 | -- | 1.8 | 0.96 | -2.83 | 0.40 | 1.00 | 0.28 | 3.13 | 0.27 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| *l* | 2 | -6853 | 953 | 819 | -6 | 0.0 | 10.0 | 0.44 | -0.60 | 0.18 | 1.00 | 0.08 | 1.11 | 0.23 | -- | -- | |
| ½ | 2 | -17362 | 330 | 137 | -147 | 0.0 | -- | 0.64 | -1.51 | 0.31 | 1.00 | 0.03 | 1.79 | 0.05 | -- | -- | |
| 0 | 2 | -21723 | 1073 | -657 | 0 | -- | 0.0 | 1.00 | -1.91 | 0.39 | 1.00 | 0.09 | 2.09 | 0.14 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -7540 | 855 | 218 | 240 | 0.0 | 1.4 | 0.79 | -1.52 | 0.25 | 1.00 | 0.17 | 1.80 | 0.29 | -- | -- | |
| ½ | 2 | -11411 | 37 | 170 | 2 | 0.0 | -- | 0.86 | -2.30 | 0.35 | 1.00 | 0.01 | 2.38 | 0.01 | -- | -- | |
| 0 | 2 | -16100 | 2490 | 4 | -270 | -- | 1.7 | 0.93 | -3.24 | 0.53 | 1.00 | 0.50 | 3.09 | 0.49 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -31635 | 3608 | 371 | -21 | 0.0 | 4.8 | 0.67 | -1.31 | 0.26 | 1.00 | 0.15 | 1.64 | 0.27 | -- | -- | |
| ½ | 2 | -78283 | 14914 | -1403 | 9522 | 0.0 | -- | 0.80 | -2.09 | 0.34 | 1.00 | 0.40 | 2.23 | 0.54 | -- | -- | |
| 0 | 2 | -54673 | 7040 | -947 | -1833 | -- | 3.4 | 0.97 | -2.71 | 0.46 | 1.00 | 0.35 | 2.69 | 0.39 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -14248 | 656 | 356 | 569 | 0.0 | 4.8 | 0.67 | -1.11 | 0.22 | 1.00 | 0.05 | 1.49 | 0.10 | -- | -- | |
| ½ | 2 | -25691 | 2869 | 243 | 863 | 0.0 | -- | 0.80 | -1.47 | 0.24 | 1.00 | 0.16 | 1.76 | 0.28 | -- | -- | |
| 0 | 2 | -29103 | 3676 | -85 | 522 | -- | 1.8 | 0.97 | -2.11 | 0.36 | 1.00 | 0.27 | 2.24 | 0.36 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -9338 | 3262 | -857 | -2634 | 0.0 | 10.8 | 0.46 | -0.77 | 0.22 | 1.00 | 0.27 | 1.24 | 0.65 | -- | -- | |
| ½ | 2 | -23990 | 6488 | 57 | -2250 | 0.0 | -- | 0.66 | -0.99 | 0.20 | 1.00 | 0.27 | 1.41 | 0.57 | -- | -- | |
| 0 | 2 | -27260 | 7412 | 575 | 1139 | -- | 4.2 | 0.95 | -1.67 | 0.35 | 1.00 | 0.45 | 1.91 | 0.71 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -7513 | 662 | 722 | 281 | 0.0 10.8 | 0.46 | -0.84 | 0.24 | 1.00 | 0.07 | 1.29 | 0.17 | -- | -- | |
| ½ | 2 | -10983 | 1858 | 116 | -6 | 0.0 -- | 0.66 | -1.25 | 0.25 | 1.00 | 0.21 | 1.60 | 0.40 | -- | -- | |
| 0 | 2 | -13919 | 2408 | -432 | -183 | -- 1.3 | 0.97 | -1.63 | 0.33 | 1.00 | 0.28 | 1.88 | 0.45 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -7990 | 1652 | 1341 | -519 | 0.0 | 10.0 | 0.44 | -0.67 | 0.20 | 1.00 | 0.14 | 1.16 | 0.36 | -- | -- | |
| ½ | 2 | -17306 | 2345 | 639 | -2021 | 0.0 | -- | 0.64 | -1.06 | 0.22 | 1.00 | 0.14 | 1.46 | 0.30 | -- | -- | |
| 0 | 2 | -19103 | 2462 | -857 | 113 | -- | 0.6 | 0.99 | -1.42 | 0.29 | 1.00 | 0.18 | 1.73 | 0.32 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -3694 | 169 | -620 | 0 | 0.0 | 2.5 | 0.75 | -1.20 | 0.21 | 1.00 | 0.05 | 1.56 | 0.11 | -- | -- | |
| ½ | 2 | -17578 | 871 | -289 | 388 | 0.0 | -- | 0.85 | -2.17 | 0.33 | 1.00 | 0.11 | 2.29 | 0.14 | -- | -- | |
| 0 | 2 | -22732 | 4500 | 1427 | 0 | -- | 0.0 | 1.00 | -3.95 | 0.61 | 1.00 | 0.78 | 3.62 | 0.65 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| l | 2 | -16405 | 529 | -2141 | 217 | 0.0 1.8 | 0.78 | -1.88 | 0.31 | 1.00 | 0.06 | 2.07 | 0.09 | -- | -- | |
| ½ | 2 | -23965 | 128 | -451 | -465 | 0.0 -- | 0.86 | -2.79 | 0.42 | 1.00 | 0.01 | 2.75 | 0.02 | -- | -- | |
| 0 | 2 | -24120 | 129 | 2929 | -362 | -- 1.5 | 0.96 | -2.81 | 0.44 | 1.00 | 0.02 | 2.77 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -22974 | 295 | -5012 | -2925 | 0.0 | 11.6 | 0.48 | -0.95 | 0.26 | 1.00 | 0.01 | 1.38 | 0.03 | -- | -- | |
| ½ | 2 | -31185 | 2808 | -515 | -3085 | 0.0 | -- | 0.67 | -1.30 | 0.25 | 1.00 | 0.12 | 1.63 | 0.21 | -- | -- | |
| 0 | 2 | -39508 | 4369 | 3872 | -2919 | -- | 7.4 | 0.94 | -1.64 | 0.34 | 1.00 | 0.18 | 1.89 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| l | 2 | -724 | 161 | 66 | 0 | 0.0 | 11.6 | 0.48 | -0.43 | 0.12 | 1.00 | 0.10 | 0.98 | 0.29 | -- | -- | |
| ½ | 2 | -5399 | 754 | 51 | 0 | 0.0 | -- | 0.67 | -0.81 | 0.16 | 1.00 | 0.11 | 1.27 | 0.27 | -- | -- | |
| 0 | 2 | -4915 | 128 | 72 | 0 | -- | 0.0 | 1.00 | -1.47 | 0.29 | 1.00 | 0.04 | 1.76 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -3908 | 629 | -111 | 0 | 0.0 | 14.1 | 0.51 | -0.67 | 0.17 | 1.00 | 0.11 | 1.16 | 0.28 | -- | -- | |
| ½ | 2 | -4889 | 1495 | 131 | 0 | 0.0 | -- | 0.69 | -0.84 | 0.16 | 1.00 | 0.26 | 1.29 | 0.60 | -- | -- | |
| 0 | 2 | -6172 | 1324 | 1060 | 0 | -- | 0.0 | 1.00 | -1.06 | 0.20 | 1.00 | 0.23 | 1.45 | 0.47 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10278 | 1222 | 322 | -39 | 0.0 | 14.1 | 0.51 | -0.55 | 0.14 | 1.00 | 0.07 | 1.07 | 0.18 | -- | -- | |
| ½ | 2 | -15074 | 3749 | 1541 | -266 | 0.0 | -- | 0.69 | -0.81 | 0.15 | 1.00 | 0.20 | 1.26 | 0.48 | -- | -- | |
| 0 | 2 | -18468 | 5935 | 3948 | -2741 | -- | 14.8 | 0.79 | -0.99 | 0.24 | 1.00 | 0.32 | 1.40 | 0.68 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -29747 | 5143 | -546 | 7450 | 0.0 | 14.1 | 0.51 | -0.75 | 0.19 | 1.00 | 0.13 | 1.22 | 0.32 | -- | -- | |
| ½ | 2 | -44799 | 6761 | 717 | 6184 | 0.0 | -- | 0.69 | -1.12 | 0.21 | 1.00 | 0.17 | 1.50 | 0.34 | -- | -- | |
| 0 | 2 | -59263 | 7239 | 765 | 4297 | -- | 7.3 | 0.95 | -1.49 | 0.30 | 1.00 | 0.18 | 1.78 | 0.31 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -7752 | 3031 | 554 | 0 | 0.0 8.7 | 0.64 | -0.88 | 0.12 | 1.00 | 0.35 | 1.66 | 0.62 | -- | -- | |
| ½ | 2 | -9641 | 3980 | 291 | 0 | 3.0 -- | 0.69 | -1.10 | 0.14 | 1.00 | 0.45 | 1.82 | 0.75 | -- | -- | |
| 0 | 2 | -9975 | 4572 | -58 | 0 | -- 0.0 | 1.00 | -1.14 | 0.14 | 1.00 | 0.52 | 1.85 | 0.84 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -3310 | 203 | -59 | 0 | 0.0 | 8.8 | 0.64 | -0.97 | 0.13 | 1.00 | 0.06 | 1.73 | 0.10 | -- | -- | |
| ½ | 2 | -13980 | 2222 | 40 | 0 | 0.3 | -- | 0.77 | -1.54 | 0.18 | 1.00 | 0.25 | 2.16 | 0.34 | -- | -- | |
| 0 | 2 | -12086 | 2958 | -155 | 0 | -- | 0.0 | 1.00 | -2.67 | 0.30 | 1.00 | 0.65 | 3.00 | 0.65 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 133 Descrizione: Maschio murario n. 133
altezza calcolata: 410.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -5490 | 1072 | -12 | 0 | 0.0 | 14.1 | 0.51 | -0.56 | 0.14 | 1.00 | 0.11 | 1.08 | 0.30 | -- | -- | |
| ½ | 2 | -8565 | 2146 | 331 | 0 | 0.0 | -- | 0.69 | -0.88 | 0.17 | 1.00 | 0.22 | 1.32 | 0.50 | -- | -- | |
| 0 | 2 | -11965 | 2637 | 1182 | 0 | -- | 0.0 | 1.00 | -1.22 | 0.23 | 1.00 | 0.27 | 1.58 | 0.51 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 134 Descrizione: Maschio murario n. 134
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -6415 | 163 | 185 | 0 | 0.0 | 14.1 | 0.51 | -0.56 | 0.14 | 1.00 | 0.01 | 1.08 | 0.04 | -- | -- | |
| ½ | 2 | -9528 | 342 | 789 | 0 | 0.0 | -- | 0.69 | -0.83 | 0.16 | 1.00 | 0.03 | 1.28 | 0.07 | -- | -- | |
| 0 | 2 | -13425 | 375 | 1965 | 0 | -- | 0.0 | 1.00 | -1.17 | 0.22 | 1.00 | 0.03 | 1.54 | 0.06 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 410.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -21601 | 3222 | 1172 | -47 | 0.0 | 7.3 | 0.66 | -0.97 | 0.19 | 1.00 | 0.14 | 1.39 | 0.31 | -- | -- | |
| ½ | 2 | -24719 | 4470 | 839 | -841 | 0.0 | -- | 0.80 | -1.11 | 0.18 | 1.00 | 0.20 | 1.49 | 0.40 | -- | -- | |
| 0 | 2 | -29201 | 4402 | 976 | -1822 | -- | 6.2 | 0.93 | -1.25 | 0.22 | 1.00 | 0.19 | 1.59 | 0.35 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 410.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -12630 | 1289 | -1799 | -67 | 0.0 | 6.8 | 0.61 | -2.24 | 0.48 | 1.00 | 0.23 | 2.34 | 0.29 | -- | -- | |
| ½ | 2 | -37666 | 5814 | -955 | 202 | 0.0 | -- | 0.75 | -2.70 | 0.47 | 1.00 | 0.42 | 2.69 | 0.47 | -- | -- | |
| 0 | 2 | -19739 | 842 | 1632 | 349 | -- | 1.8 | 0.95 | -2.83 | 0.52 | 1.00 | 0.12 | 2.79 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 350.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -7027 | 2507 | -115 | 804 | 0.0 | 13.3 | 0.52 | -0.72 | 0.12 | 1.00 | 0.26 | 1.54 | 0.50 | -- | -- | |
| ½ | 2 | -8391 | 4711 | -20 | 1500 | 0.2 | -- | 0.69 | -0.76 | 0.10 | 1.00 | 0.43 | 1.57 | 0.82 | -- | -- | |
| 0 | 2 | -5025 | 3706 | -70 | -137 | -- | 2.7 | 0.94 | -0.47 | 0.06 | 1.00 | 0.35 | 1.36 | 0.77 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -1749 | 732 | 35 | 0 | 0.0 | 11.6 | 0.51 | -0.27 | 0.05 | 1.00 | 0.11 | 1.20 | 0.28 | -- | -- | |
| ½ | 2 | -1922 | 2643 | 102 | -82 | 0.0 | -- | 0.69 | -0.22 | 0.03 | 1.00 | 0.31 | 1.17 | 0.78 | -- | -- | |
| 0 | 2 | -2153 | 392 | 97 | 0 | -- | 0.0 | 1.00 | -0.28 | 0.04 | 1.00 | 0.05 | 1.21 | 0.13 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -3815 | 1439 | 10 | -264 | 0.0 | 10.8 | 0.49 | -0.35 | 0.09 | 1.00 | 0.13 | 0.92 | 0.43 | -- | -- | |
| ½ | 2 | -7839 | 1959 | 197 | -990 | 0.0 | -- | 0.68 | -0.72 | 0.14 | 1.00 | 0.18 | 1.20 | 0.45 | -- | -- | |
| 0 | 2 | -12526 | 1001 | 700 | -1154 | -- | 9.2 | 0.82 | -1.16 | 0.27 | 1.00 | 0.09 | 1.53 | 0.18 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 350.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -2538 | 1939 | 148 | 0 | 0.0 | 10.8 | 0.49 | -0.81 | 0.21 | 1.00 | 0.62 | 1.27 | 1.47 | -- | -- | |
| ½ | 2 | -5530 | 1277 | 32 | 0 | 0.0 | -- | 0.68 | -1.77 | 0.34 | 1.00 | 0.41 | 1.99 | 0.62 | -- | -- | |
| 0 | 2 | -7967 | 791 | 55 | 0 | -- | 0.0 | 1.00 | -2.55 | 0.49 | 1.00 | 0.25 | 2.57 | 0.30 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm$^2$ | | | kg/cm$^2$ | | | | | |
| l | 2 | -5506 | 929 | -12 | -236 | 0.0 | 10.8 | 0.49 | -0.69 | 0.18 | 1.00 | 0.12 | 1.18 | 0.30 | -- | -- | |
| ½ | 2 | -11271 | 1455 | 274 | -393 | 0.0 | -- | 0.68 | -1.42 | 0.27 | 1.00 | 0.18 | 1.72 | 0.32 | -- | -- | |
| 0 | 2 | -13344 | 1487 | 786 | 618 | -- | 4.6 | 0.88 | -1.68 | 0.37 | 1.00 | 0.19 | 1.92 | 0.29 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -7386 | 390 | 104 | -531 | 0.0 | 10.8 | 0.49 | -0.52 | 0.14 | 1.00 | 0.03 | 1.05 | 0.08 | -- | -- | |
| ½ | 2 | -12874 | 3177 | 372 | 74 | 0.0 | -- | 0.68 | -0.91 | 0.17 | 1.00 | 0.22 | 1.34 | 0.50 | -- | -- | |
| 0 | 2 | -18266 | 2812 | 509 | 1738 | -- | 9.5 | 0.86 | -1.29 | 0.29 | 1.00 | 0.20 | 1.63 | 0.37 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 350.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 2 | -6862 | 3185 | 228 | -359 | 0.0 10.8 | 0.49 | -0.53 | 0.14 | 1.00 | 0.25 | 1.06 | 0.70 | -- | -- | |
| ½ | 2 | -15007 | 3964 | 400 | -1673 | 0.0 -- | 0.68 | -1.16 | 0.22 | 1.00 | 0.31 | 1.53 | 0.60 | -- | -- | |
| 0 | 2 | -23691 | 1307 | 1402 | 777 | -- 3.3 | 0.95 | -1.82 | 0.37 | 1.00 | 0.10 | 2.03 | 0.15 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -4066 | 437 | 108 | 24 | 0.0 | 12.4 | 0.51 | -0.40 | 0.07 | 1.00 | 0.04 | 1.30 | 0.10 | -- | -- | |
| ½ | 2 | -4898 | 1631 | 225 | 106 | 4.6 | -- | 0.57 | -0.48 | 0.07 | 1.00 | 0.16 | 1.36 | 0.35 | -- | -- | |
| 0 | 2 | -4601 | 4074 | -97 | -527 | -- | 11.5 | 0.74 | -0.45 | 0.09 | 1.00 | 0.40 | 1.34 | 0.89 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -4304 | 295 | 22 | 0 | 0.0 | 10.8 | 0.49 | -1.01 | 0.27 | 1.00 | 0.07 | 1.42 | 0.15 | -- | -- | |
| ½ | 2 | -4316 | 13 | -142 | 0 | 0.0 | -- | 0.68 | -1.01 | 0.19 | 1.00 | 0.00 | 1.42 | 0.01 | -- | -- | |
| 0 | 2 | -4127 | 98 | -242 | 0 | -- | 0.0 | 1.00 | -0.97 | 0.19 | 1.00 | 0.02 | 1.39 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -10441 | 528 | 149 | -1230 | 0.0 | 10.8 | 0.49 | -0.34 | 0.09 | 1.00 | 0.02 | 0.91 | 0.06 | -- | -- | |
| ½ | 2 | -22060 | 3529 | -72 | -3038 | 0.0 | -- | 0.68 | -0.71 | 0.14 | 1.00 | 0.11 | 1.19 | 0.29 | -- | -- | |
| 0 | 2 | -30592 | 3485 | -1175 | 498 | -- | 1.6 | 0.99 | -0.98 | 0.19 | 1.00 | 0.11 | 1.40 | 0.24 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -4346 | 1359 | 5 | 258 | 0.0 | 10.8 | 0.49 | -0.88 | 0.23 | 1.00 | 0.28 | 1.32 | 0.63 | -- | -- | |
| ½ | 2 | -5031 | 1206 | 198 | 4 | 0.0 | -- | 0.68 | -1.02 | 0.20 | 1.00 | 0.24 | 1.43 | 0.52 | -- | -- | |
| 0 | 2 | -5567 | 1469 | 282 | -192 | -- | 3.4 | 0.86 | -1.13 | 0.25 | 1.00 | 0.30 | 1.51 | 0.59 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -2534 | 554 | -77 | 164 | 0.0 | 11.6 | 0.51 | -0.51 | 0.13 | 1.00 | 0.11 | 1.04 | 0.32 | -- | -- | |
| ½ | 2 | -5670 | 227 | -306 | 130 | 0.0 | -- | 0.69 | -1.14 | 0.22 | 1.00 | 0.05 | 1.52 | 0.09 | -- | -- | |
| 0 | 2 | -8468 | 1663 | 153 | 24 | -- | 0.3 | 0.99 | -1.70 | 0.33 | 1.00 | 0.33 | 1.94 | 0.52 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -3538 | 355 | 18 | 302 | 0.0 | 11.6 | 0.51 | -0.15 | 0.04 | 1.00 | 0.01 | 0.77 | 0.06 | -- | -- | |
| ½ | 2 | -11996 | 1084 | 155 | 1966 | 0.0 | -- | 0.69 | -0.50 | 0.09 | 1.00 | 0.04 | 1.03 | 0.13 | -- | -- | |
| 0 | 2 | -18571 | 701 | 383 | 536 | -- | 2.9 | 0.97 | -0.77 | 0.15 | 1.00 | 0.03 | 1.24 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -1797 | 176 | 66 | -0 | 0.0 | 11.6 | 0.51 | -0.13 | 0.03 | 1.00 | 0.01 | 0.76 | 0.05 | -- | -- | |
| ½ | 2 | -5317 | 270 | 219 | 10 | 0.0 | -- | 0.69 | -0.39 | 0.07 | 1.00 | 0.02 | 0.95 | 0.06 | -- | -- | |
| 0 | 2 | -8418 | 255 | 115 | 201 | -- | 2.4 | 0.96 | -0.61 | 0.12 | 1.00 | 0.02 | 1.12 | 0.05 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 350.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -1398 | 373 | -31 | 0 | 0.0 | 11.6 | 0.51 | -0.39 | 0.10 | 1.00 | 0.11 | 0.96 | 0.33 | -- | -- | |
| ½ | 2 | -2104 | 858 | -45 | 0 | 0.0 | -- | 0.69 | -0.59 | 0.11 | 1.00 | 0.24 | 1.10 | 0.66 | -- | -- | |
| 0 | 2 | -2892 | 750 | -114 | 0 | -- | 0.0 | 1.00 | -0.82 | 0.15 | 1.00 | 0.21 | 1.27 | 0.50 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** β, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo ρ: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 350.00 cm

| Posiz | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | β | τ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| *l* | 2 | -9504 | 922 | -2440 | 422 | 0.0 | 11.6 | 0.51 | -1.42 | 0.37 | 1.00 | 0.14 | 1.73 | 0.24 | -- | -- | |
| ½ | 2 | -13404 | 651 | -838 | 15 | 0.0 | -- | 0.69 | -2.00 | 0.38 | 1.00 | 0.10 | 2.16 | 0.13 | -- | -- | |
| 0 | 2 | -13836 | 109 | 1581 | 27 | -- | 0.2 | 0.99 | -2.07 | 0.39 | 1.00 | 0.02 | 2.21 | 0.02 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -1044 | 379 | 142 | 0 | 0.0 | 11.6 | 0.51 | -0.15 | 0.04 | 1.00 | 0.06 | 0.77 | 0.21 | -- | -- | |
| ½ | 2 | -2461 | 312 | 279 | 0 | 0.0 | -- | 0.69 | -0.36 | 0.07 | 1.00 | 0.05 | 0.93 | 0.15 | -- | -- | |
| 0 | 2 | -4182 | 1521 | 303 | 0 | -- | 0.0 | 1.00 | -0.61 | 0.12 | 1.00 | 0.22 | 1.12 | 0.60 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -346 | 494 | 84 | 0 | 0.0 | 11.6 | 0.51 | -0.10 | 0.03 | 1.00 | 0.14 | 0.73 | 0.57 | -- | -- | |
| ½ | 2 | -652 | 471 | 205 | 0 | 0.0 | -- | 0.69 | -0.18 | 0.04 | 1.00 | 0.13 | 0.80 | 0.50 | -- | -- | |
| 0 | 2 | -1745 | 80 | 112 | 0 | -- | 0.0 | 1.00 | -0.49 | 0.09 | 1.00 | 0.02 | 1.03 | 0.07 | -- | -- | |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 2 | -3331 | 1797 | 807 | -171 | 0.0 | 11.6 | 0.51 | -0.18 | 0.05 | 1.00 | 0.10 | 0.80 | 0.37 | -- | -- | |
| ½ | 2 | -9748 | 807 | 995 | -1928 | 0.0 | -- | 0.69 | -0.53 | 0.10 | 1.00 | 0.04 | 1.06 | 0.12 | -- | -- | |
| 0 | 2 | -12649 | 368 | 856 | -2171 | -- | 17.2 | 0.79 | -0.69 | 0.16 | 1.00 | 0.02 | 1.18 | 0.05 | -- | -- | |

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

Nome archivio di lavoro : Pilastro Pt-1p
Intestazione del lavoro : Pilastro Pt-1p
Unita' misura Massa : kg
Unita' misura Lunghezza : cm
Unita' misura Tempo : min
Tempo finale di calcolo : 120
Curva temperatura-tempo : Standard
Numero suddivisioni : 48
Temperatura aria ambiente : 20.0
Convezione (parete al fuoco) : 25.0
Radiazione (parete al fuoco) : 0.56
Convezione (parete ambiente) : 9.0
Radiazione (parete ambiente) : 0.56

**REGIONI DELLA SEZIONE**

| n.reg. | descrizione |
|---|---|
| 1 | Gruppo1 |

**NODI DELLA SEZIONE**

| Nodo | Coord.X | Coord.Y | Temp: t=0 | Temp: t=20.0 | t=40.0 | t=60.0 | t=80.0 | t=100.0 | t=120.0 |
|---|---|---|---|---|---|---|---|---|---|
| (Nodi a temperatura minima e massima) | | | | | | | | | |
| 16 | -3.135 | 0.143 | 20.0 | 20.0 | 20.0 | 20.3 | 22.6 | 28.7 | 38.8 |
| 8 | -30.635 | 27.643 | 20.0 | 781.7 | 896.1 | 954.7 | 995.4 | 1027.7 | 1054.1 |

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

Nome archivio di lavoro : Pilastro Pt-1p
Intestazione del lavoro : Pilastro Pt-1p
Unita' misura Forza : kg
Unita' misura Lunghezza : cm
Unita' misura Tensioni : kg/cmq
Tempo finale di calcolo : 120
Curva temperatura-tempo : Standard
Numero suddivisioni : 48
Temperatura aria ambiente : 20.0
Convezione (parete al fuoco) : 25.0
Radiazione (parete al fuoco) : 0.56
Convezione (parete ambiente) : 9.0
Radiazione (parete ambiente) : 0.56

Normativa: NTC-2008 Versione: 14 Gennaio 2008
Fattori di riduzione dei materiali
Calcestruzzo secondo: Calcestruzzo a base calcarea
Acciaio secondo: Curva 3 (pilastri...)
Acciaio precompresso secondo: Cl. 1 - Curva 1 a (ordinario)

Resistenza caratteristica a 28 gg.cls. Rck: 290 kg/cmq
Tens. di snervamento acciaio normale.. fyk: 2150 kg/cmq
Tens. di snervamento acciaio trefoli. fykp: 16300 kg/cmq

Tensione di calcolo calcestruzzo..... fcd: -136 kg/cmq
Tensione di calcolo acciaio ordinario. fsd: 1870 kg/cmq
Modulo di Young acciaio ordinario..... Es: 2100000 kg/cmq
Tensione di calcolo trefoli..... fpd: 14174 kg/cmq
Modulo di Young trefoli..... Ep: 2100000 kg/cmq
Def.unit.dell'a.p. per presoll.perm Def.po: 0.00500
Tensione di calcolo a compressione cls fcd: -136 kg/cmq
Tensione di calcolo a trazione cls... fctd: 12 kg/cmq

## ARMATURE A.O.

| Arm | Temp | fatt.rid. | Def(%) | Tens | X | Y | Diam (mm) |
|---|---|---|---|---|---|---|---|
| 1 | 20 | 1.000 | -0.32 | -1869.6 | -27.6 | 24.6 | 16.0 |
| 2 | 20 | 1.000 | 0.17 | 1869.6 | -27.6 | -24.4 | 16.0 |
| 3 | 20 | 1.000 | 0.17 | 1869.6 | 21.4 | -24.4 | 16.0 |
| 4 | 20 | 1.000 | -0.32 | -1869.6 | 21.4 | 24.6 | 16.0 |
| 5 | 20 | 1.000 | -0.32 | -1869.6 | -3.1 | 24.6 | 16.0 |
| 6 | 20 | 1.000 | -0.08 | -1604.3 | 21.4 | 0.1 | 16.0 |
| 7 | 20 | 1.000 | 0.17 | 1869.6 | -3.1 | -24.4 | 16.0 |
| 8 | 20 | 1.000 | -0.08 | -1604.3 | -27.6 | 0.1 | 16.0 |

# VERIFICHE ALLO STATO LIMITE DELLA SEZIONE

| Zona compressa | Descrizione | Tempo verifica |
|---|---|---|
| superiore | Pilastro Pt-1p | a freddo |

## Verifica a pressoflessione

Sforzo normale N = -221600
Legame Costitutivo Parabola-Rettangolo: -0.0020/-0.0035
Posizione asse neutro: Yn= -7.5
**Momento di rottura: Mr= 3297394.5**
Campo di rottura della sezione: 3 (snervamento acciaio e schiacciamento calcestruzzo)
Deformazione max. nel calcestruzzo epsc max(%)= -0.35
Tensione corrispondente nel calcestruzzo sigc = -136.4
Deformazione max. nell'acciaio epss max(%)= 0.17
Tensione corrispondente nell'acciaio sigs = 1869.6

## Verifiche a taglio

Taglio $V_{ED}$ = 1812.0
X sinistra Taglio = -30.6

X destra  Taglio =  24.4

**Verifica senza armatura trasversale**
Taglio resistente ultimo  Vrd = 9689.5
**I.R. = 0.187**

**Verifica delle bielle compresse**
Taglio resistente ultimo  Vrcd = 60591.3
ctg ϑ = 2.50
**I.R. = 0.030**

**Armatura minima a taglio**
(Asw/s)>= 0.83 cmq/m
**Staffe a 2 braccia  ϕ8 / 99.0 cm**
fyd usato = 1869.56  kg/cmq

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

| | | |
|---|---|---|
| Nome archivio di lavoro | : | Pilastro Pt-1p |
| Intestazione del lavoro | : | Pilastro Pt-1p |
| Unita' misura Forza | : | kg |
| Unita' misura Lunghezza | : | cm |
| Unita' misura Tensioni | : | kg/cmq |
| Tempo finale di calcolo | : | 120 |
| Curva temperatura-tempo | : | Standard |
| Numero suddivisioni | : | 48 |
| Temperatura aria ambiente | : | 20.0 |
| Convezione (parete al fuoco) | : | 25.0 |
| Radiazione (parete al fuoco) | : | 0.56 |
| Convezione (parete ambiente) | : | 9.0 |
| Radiazione (parete ambiente) | : | 0.56 |

Normativa: NTC-2008  Versione: 14 Gennaio 2008
Fattori di riduzione dei materiali
Calcestruzzo secondo: Calcestruzzo a base calcarea
Acciaio secondo: Curva 3 (pilastri...)
Acciaio precompresso secondo: Cl. 1 - Curva 1 a (ordinario)

| | | |
|---|---|---|
| Resistenza caratteristica a 28 gg.cls. Rck: | 290 | kg/cmq |
| Tens. di snervamento acciaio normale.. fyk: | 2150 | kg/cmq |
| Tens. di snervamento acciaio trefoli. fykp: | 16300 | kg/cmq |
| Tensione di calcolo calcestruzzo..... fcd: | -136 | kg/cmq |
| Tensione di calcolo acciaio ordinario. fsd: | 1870 | kg/cmq |
| Modulo di Young acciaio ordinario.....  Es: | 2100000 | kg/cmq |
| Tensione di calcolo trefoli..... fpd: | 14174 | kg/cmq |
| Modulo di Young trefoli.....  Ep: | 2100000 | kg/cmq |
| Def.unit.dell'a.p. per presoll.perm Def.po: | 0.00500 | |
| Tensione di calcolo a compressione cls fcd: | -136 | kg/cmq |
| Tensione di calcolo a trazione cls... fctd: | 12 | kg/cmq |

Legame Costitutivo Parabola-Rettangolo: -0.0020/-0.0035

Dominio di rottura N-Mx

Tempo di verifica: a freddo

N,M di riferimento
N(A) =-442652
M(A) =+17.25
N(B) =+30071.8
M(B) =-0
M(C')=-754689
M(C) =+754689
N(D')=+206296
M(D')=+3.31147e+006
N(D) =-206296
M(D) =+3.31148e+006

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

Nome archivio di lavoro : Pilastro 1p-2p
Intestazione del lavoro : Pilastro 1p-2p
Unita' misura Massa : kg
Unita' misura Lunghezza : cm
Unita' misura Tempo : min
Tempo finale di calcolo : 120
Curva temperatura-tempo : Standard
Numero suddivisioni : 48
Temperatura aria ambiente : 20.0
Convezione (parete al fuoco) : 25.0
Radiazione (parete al fuoco) : 0.56
Convezione (parete ambiente) : 9.0
Radiazione (parete ambiente) : 0.56

**REGIONI DELLA SEZIONE**

| n.reg. | descrizione |
|---|---|
| 1 | Gruppo1 |

**NODI DELLA SEZIONE**

| Nodo | Coord.X | Coord.Y | Temp: t=0 | Temp: t=20.0 | t=40.0 | t=60.0 | t=80.0 | t=100.0 | t=120.0 |
|---|---|---|---|---|---|---|---|---|---|
| (Nodi a temperatura minima e massima) | | | | | | | | | |
| 19 | 0.619 | 1.648 | 20.0 | 20.0 | 20.0 | 21.2 | 26.9 | 38.5 | 55.1 |
| 8 | -23.381 | 25.648 | 20.0 | 782.1 | 896.4 | 954.9 | 995.5 | 1027.8 | 1054.2 |

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

Nome archivio di lavoro : Pilastro 1p-2p
Intestazione del lavoro : Pilastro 1p-2p
Unita' misura Forza : kg
Unita' misura Lunghezza : cm
Unita' misura Tensioni : kg/cmq
Tempo finale di calcolo : 120
Curva temperatura-tempo : Standard
Numero suddivisioni : 48
Temperatura aria ambiente : 20.0
Convezione (parete al fuoco) : 25.0
Radiazione (parete al fuoco) : 0.56
Convezione (parete ambiente) : 9.0
Radiazione (parete ambiente) : 0.56

Normativa: NTC-2008 Versione: 14 Gennaio 2008
Fattori di riduzione dei materiali
Calcestruzzo secondo: Calcestruzzo a base calcarea
Acciaio secondo: Curva 3 (pilastri...)
Acciaio precompresso secondo: Cl. 1 - Curva 1 a (ordinario)

Resistenza caratteristica a 28 gg.cls. Rck: 400 kg/cmq
Tens. di snervamento acciaio normale.. fyk: 2150 kg/cmq
Tens. di snervamento acciaio trefoli. fykp: 16300 kg/cmq

Tensione di calcolo calcestruzzo..... fcd: -188 kg/cmq
Tensione di calcolo acciaio ordinario. fsd: 1870 kg/cmq
Modulo di Young acciaio ordinario..... Es: 2100000 kg/cmq
Tensione di calcolo trefoli..... fpd: 14174 kg/cmq
Modulo di Young trefoli..... Ep: 2100000 kg/cmq
Def.unit.dell'a.p. per presoll.perm Def.po: 0.00500
Tensione di calcolo a compressione cls fcd: -188 kg/cmq
Tensione di calcolo a trazione cls... fctd: 14 kg/cmq

## ARMATURE A.O.

| Arm | Temp | fatt.rid. | Def(%) | Tens | X | Y | Diam (mm) |
|---|---|---|---|---|---|---|---|
| 1 | 20 | 1.000 | -0.30 | -1869.6 | -20.4 | 22.6 | 16.0 |
| 2 | 20 | 1.000 | 0.38 | 1869.6 | -20.4 | -21.4 | 16.0 |
| 3 | 20 | 1.000 | 0.38 | 1869.6 | 23.6 | -21.4 | 16.0 |
| 4 | 20 | 1.000 | -0.30 | -1869.6 | 23.6 | 22.6 | 16.0 |
| 5 | 20 | 1.000 | -0.30 | -1869.6 | 1.6 | 22.6 | 16.0 |
| 6 | 20 | 1.000 | 0.04 | 774.8 | 23.6 | 0.6 | 16.0 |
| 7 | 20 | 1.000 | 0.38 | 1869.6 | 1.6 | -21.4 | 16.0 |
| 8 | 20 | 1.000 | 0.04 | 774.8 | -20.4 | 0.6 | 16.0 |

# VERIFICHE ALLO STATO LIMITE DELLA SEZIONE

| Zona compressa | Descrizione | Tempo verifica |
|---|---|---|
| superiore | Pilastro 1p-2p | a freddo |

## Verifica a pressoflessione

Sforzo normale N = -169900
Legame Costitutivo Parabola-Rettangolo: -0.0020/-0.0035
Posizione asse neutro: Yn= 3.0
**Momento di rottura: Mr= 3184974.0**
Campo di rottura della sezione: 3 (snervamento acciaio e schiacciamento calcestruzzo)
Deformazione max. nel calcestruzzo epsc max(%)= -0.35
Tensione corrispondente nel calcestruzzo sigc = -188.1
Deformazione max. nell'acciaio epss max(%)= 0.38
Tensione corrispondente nell'acciaio sigs = 1869.6

## Verifiche a taglio

Taglio $V_{ED}$ = 7434.0
X sinistra Taglio = -23.4

X destra  Taglio =  26.6

**Verifica senza armatura trasversale**
Taglio resistente ultimo  Vrd = 11429.5
**I.R. = 0.650**

**Verifica delle bielle compresse**
Taglio resistente ultimo  Vrcd = 68602.3
ctg ϑ = 2.50
**I.R. = 0.108**

**Armatura minima a taglio**
(Asw/s)>= 3.76 cmq/m
**Staffe a 2 braccia  ϕ8 / 26.7 cm**
fyd usato = 1869.56  kg/cmq

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

| | | |
|---|---|---|
| Nome archivio di lavoro | : | Pilastro 1p-2p |
| Intestazione del lavoro | : | Pilastro 1p-2p |
| Unita' misura Forza | : | kg |
| Unita' misura Lunghezza | : | cm |
| Unita' misura Tensioni | : | kg/cmq |
| Tempo finale di calcolo | : | 120 |
| Curva temperatura-tempo | : | Standard |
| Numero suddivisioni | : | 48 |
| Temperatura aria ambiente | : | 20.0 |
| Convezione (parete al fuoco) | : | 25.0 |
| Radiazione (parete al fuoco) | : | 0.56 |
| Convezione (parete ambiente) | : | 9.0 |
| Radiazione (parete ambiente) | : | 0.56 |

Normativa: NTC-2008  Versione: 14 Gennaio 2008
Fattori di riduzione dei materiali
Calcestruzzo secondo: Calcestruzzo a base calcarea
Acciaio secondo: Curva 3 (pilastri...)
Acciaio precompresso secondo: Cl. 1 - Curva 1 a (ordinario)

| | | |
|---|---|---|
| Resistenza caratteristica a 28 gg.cls. Rck: | 400 | kg/cmq |
| Tens. di snervamento acciaio normale.. fyk: | 2150 | kg/cmq |
| Tens. di snervamento acciaio trefoli. fykp: | 16300 | kg/cmq |
| Tensione di calcolo calcestruzzo..... fcd: | -188 | kg/cmq |
| Tensione di calcolo acciaio ordinario. fsd: | 1870 | kg/cmq |
| Modulo di Young acciaio ordinario.....  Es: | 2100000 | kg/cmq |
| Tensione di calcolo trefoli..... fpd: | 14174 | kg/cmq |
| Modulo di Young trefoli.....  Ep: | 2100000 | kg/cmq |
| Def.unit.dell'a.p. per presoll.perm Def.po: | 0.00500 | |
| Tensione di calcolo a compressione cls fcd: | -188 | kg/cmq |
| Tensione di calcolo a trazione cls... fctd: | 14 | kg/cmq |

Legame Costitutivo Parabola-Rettangolo: -0.0020/-0.0035

Dominio di rottura N-My

Tempo di verifica: 120 min

N,M di riferimento
N(A) =-624978
M(A) =-979.25
N(B) =+8491.57
M(B) =+81.1992
M(C')=-193649
M(C) =+193800
N(D')=+302026
M(D')=+3.34901e+006
N(D) =-301969
M(D) =+3.34808e+006

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -34388 | 217 | -1018 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1B | -34398 | 217 | -1018 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1C | -34388 | 217 | -1021 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1D | -34398 | 217 | -1021 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -34381 | 218 | -1017 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1J | -34405 | 218 | -1017 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1K | -34381 | 218 | -1022 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1L | -34405 | 218 | -1022 | 0 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.02 | 3.41 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -164567 | 20351 | -3994 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.29 | 0.26 | -- | -- | |
| ½ | 1B | -164612 | 20351 | -3994 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.29 | 0.26 | -- | -- | |
| ½ | 1C | -164567 | 20351 | -4005 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.29 | 0.26 | -- | -- | |
| ½ | 1D | -164612 | 20351 | -4005 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.29 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -164535 | 20357 | -3987 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.29 | 0.26 | -- | -- | |
| ½ | 1J | -164644 | 20357 | -3987 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.30 | 0.26 | -- | -- | |
| ½ | 1K | -164535 | 20357 | -4013 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.29 | 0.26 | -- | -- | |
| ½ | 1L | -164644 | 20357 | -4013 | 0 | -- | -- | -- | -3.51 | 0.25 | 1.00 | 0.43 | 3.30 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -31803 | 1282 | -679 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.21 | 0.09 | 0.00 | 0.05 | |
| 0 | 1B | -31810 | 1282 | -679 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.21 | 0.09 | 0.00 | 0.05 | |
| 0 | 1C | -31803 | 1282 | -679 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.21 | 0.09 | 0.00 | 0.05 | |
| 0 | 1D | -31810 | 1282 | -679 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.21 | 0.09 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -31798 | 1283 | -678 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.20 | 0.09 | 0.00 | 0.05 | |
| 0 | 1J | -31815 | 1283 | -678 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.21 | 0.09 | 0.00 | 0.05 | |
| 0 | 1K | -31798 | 1283 | -679 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.20 | 0.09 | 0.00 | 0.05 | |
| 0 | 1L | -31815 | 1283 | -679 | 0 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.14 | 3.21 | 0.09 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -144250 | 9559 | 2422 | -4938 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.28 | 3.88 | 0.15 | -- | -- | |
| l | 1B | -144270 | 9559 | 2422 | -4929 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.28 | 3.88 | 0.15 | -- | -- | |
| l | 1C | -144250 | 9559 | 2419 | -4938 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.28 | 3.88 | 0.15 | -- | -- | |
| l | 1D | -144270 | 9559 | 2419 | -4929 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.28 | 3.88 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -144235 | 9572 | 2424 | -4944 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.29 | 3.88 | 0.15 | -- | -- | |
| l | 1J | -144285 | 9572 | 2424 | -4922 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.29 | 3.88 | 0.15 | -- | -- | |
| l | 1K | -144235 | 9572 | 2417 | -4944 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.29 | 3.88 | 0.15 | -- | -- | |
| l | 1L | -144285 | 9572 | 2417 | -4922 | -- | -- | -- | -4.30 | 0.31 | 1.00 | 0.29 | 3.88 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -625071 | 43840 | 25342 | -2199 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1B | -625258 | 43840 | 25342 | -2189 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1C | -625071 | 43840 | 25331 | -2199 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1D | -625258 | 43840 | 25331 | -2189 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -624940 | 43887 | 25349 | -2205 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1J | -625389 | 43887 | 25349 | -2182 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.26 | 3.46 | 0.15 | -- | -- | |
| ½ | 1K | -624940 | 43887 | 25324 | -2205 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1L | -625389 | 43887 | 25324 | -2182 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.26 | 3.46 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -112362 | 3678 | -800 | -64 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1B | -112378 | 3678 | -800 | -62 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1C | -112362 | 3678 | -800 | -64 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1D | -112378 | 3678 | -800 | -62 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -112352 | 3684 | -799 | -65 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1J | -112388 | 3684 | -799 | -61 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1K | -112352 | 3684 | -801 | -65 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1L | -112388 | 3684 | -801 | -61 | -- | -- | -- | -3.35 | 0.24 | 1.00 | 0.11 | 3.17 | 0.07 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -87864 | 3311 | 4846 | -738 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.19 | 4.53 | 0.09 | -- | -- | |
| l | 1B | -87877 | 3311 | 4846 | -739 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.19 | 4.53 | 0.09 | -- | -- | |
| l | 1C | -87864 | 3311 | 4843 | -738 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.19 | 4.53 | 0.09 | -- | -- | |
| l | 1D | -87877 | 3311 | 4843 | -739 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.19 | 4.53 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -87855 | 3323 | 4848 | -737 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.20 | 4.53 | 0.09 | -- | -- | |
| l | 1J | -87886 | 3323 | 4848 | -740 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.20 | 4.53 | 0.09 | -- | -- | |
| l | 1K | -87855 | 3323 | 4841 | -737 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.20 | 4.53 | 0.09 | -- | -- | |
| l | 1L | -87886 | 3323 | 4841 | -740 | -- | -- | -- | -5.16 | 0.37 | 1.00 | 0.20 | 4.53 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -255442 | 19968 | 14613 | 1125 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1B | -255525 | 19968 | 14613 | 1128 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1C | -255442 | 19968 | 14608 | 1125 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1D | -255525 | 19968 | 14608 | 1128 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -255385 | 19997 | 14617 | 1123 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1J | -255582 | 19997 | 14617 | 1131 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1K | -255385 | 19997 | 14604 | 1123 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1L | -255582 | 19997 | 14604 | 1131 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -55360 | 3555 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.13 | 0.00 | 0.03 | |
| 0 | 1B | -55366 | 3555 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.13 | 0.00 | 0.03 | |
| 0 | 1C | -55360 | 3555 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.13 | 0.00 | 0.03 | |
| 0 | 1D | -55366 | 3555 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.13 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -55356 | 3563 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.14 | 0.00 | 0.03 | |
| 0 | 1J | -55370 | 3563 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.14 | 0.00 | 0.03 | |
| 0 | 1K | -55356 | 3563 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.14 | 0.00 | 0.03 | |
| 0 | 1L | -55370 | 3563 | -674 | -130 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.21 | 3.10 | 0.14 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -22896 | 4017 | 322 | 0 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.59 | 3.19 | 0.37 | -- | -- | |
| l | 1B | -22935 | 4017 | 322 | 0 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.59 | 3.19 | 0.37 | -- | -- | |
| l | 1C | -22896 | 4017 | 318 | 0 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.59 | 3.19 | 0.37 | -- | -- | |
| l | 1D | -22935 | 4017 | 318 | 0 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.59 | 3.19 | 0.37 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -22869 | 4025 | 324 | 0 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.59 | 3.19 | 0.37 | -- | -- | |
| l | 1J | -22963 | 4025 | 324 | 0 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.59 | 3.20 | 0.37 | -- | -- | |
| l | 1K | -22869 | 4025 | 316 | 0 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.59 | 3.19 | 0.37 | -- | -- | |
| l | 1L | -22963 | 4025 | 316 | 0 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.59 | 3.20 | 0.37 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -110915 | 8288 | 1073 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.24 | 3.11 | 0.16 | -- | -- | |
| ½ | 1B | -110953 | 8288 | 1073 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.24 | 3.11 | 0.16 | -- | -- | |
| ½ | 1C | -110915 | 8288 | 1060 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.24 | 3.11 | 0.16 | -- | -- | |
| ½ | 1D | -110953 | 8288 | 1060 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.24 | 3.11 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -110888 | 8323 | 1081 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.25 | 3.11 | 0.16 | -- | -- | |
| ½ | 1J | -110979 | 8323 | 1081 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.25 | 3.11 | 0.16 | -- | -- | |
| ½ | 1K | -110888 | 8323 | 1052 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.25 | 3.11 | 0.16 | -- | -- | |
| ½ | 1L | -110979 | 8323 | 1052 | -0 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.25 | 3.11 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -21154 | 1870 | -1669 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1B | -21161 | 1870 | -1669 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1C | -21154 | 1870 | -1671 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1D | -21161 | 1870 | -1671 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21150 | 1874 | -1668 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1J | -21166 | 1874 | -1668 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1K | -21150 | 1874 | -1672 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1L | -21166 | 1874 | -1672 | 0 | -- | -- | -- | -3.12 | 0.22 | 1.00 | 0.28 | 3.00 | 0.18 | 0.00 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -58184 | 4073 | 477 | 1756 | -- | -- | -- | -4.25 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1B | -58225 | 4073 | 477 | 1752 | -- | -- | -- | -4.26 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1C | -58184 | 4073 | 471 | 1756 | -- | -- | -- | -4.25 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1D | -58225 | 4073 | 471 | 1752 | -- | -- | -- | -4.26 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -58155 | 4080 | 482 | 1759 | -- | -- | -- | -4.25 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1J | -58253 | 4080 | 482 | 1749 | -- | -- | -- | -4.26 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1K | -58155 | 4080 | 467 | 1759 | -- | -- | -- | -4.25 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1L | -58253 | 4080 | 467 | 1749 | -- | -- | -- | -4.26 | 0.30 | 1.00 | 0.30 | 3.85 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -300189 | 14691 | 803 | 6472 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1B | -300315 | 14691 | 803 | 6486 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1C | -300189 | 14691 | 781 | 6472 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1D | -300315 | 14691 | 781 | 6486 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -300101 | 14801 | 818 | 6463 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1J | -300403 | 14801 | 818 | 6495 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1K | -300101 | 14801 | 765 | 6463 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1L | -300403 | 14801 | 765 | 6495 | -- | -- | -- | -3.69 | 0.26 | 1.00 | 0.18 | 3.43 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48450 | 613 | -63 | -19 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.04 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1B | -48452 | 613 | -63 | -20 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.04 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1C | -48450 | 613 | -64 | -19 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.04 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1D | -48452 | 613 | -64 | -20 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.04 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48449 | 629 | -63 | -19 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.05 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1J | -48454 | 629 | -63 | -20 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.05 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1K | -48449 | 629 | -65 | -19 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.05 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1L | -48454 | 629 | -65 | -20 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.05 | 3.32 | 0.03 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -69029 | 1200 | -135 | -156 | -- | -- | -- | -4.96 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1B | -69041 | 1200 | -135 | -154 | -- | -- | -- | -4.96 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1C | -69029 | 1200 | -136 | -156 | -- | -- | -- | -4.96 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1D | -69041 | 1200 | -136 | -154 | -- | -- | -- | -4.96 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -69020 | 1216 | -133 | -158 | -- | -- | -- | -4.96 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1J | -69050 | 1216 | -133 | -152 | -- | -- | -- | -4.97 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1K | -69020 | 1216 | -138 | -158 | -- | -- | -- | -4.96 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1L | -69050 | 1216 | -138 | -152 | -- | -- | -- | -4.97 | 0.35 | 1.00 | 0.09 | 4.38 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -287776 | 21955 | -71 | -1813 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.76 | 0.17 | -- | -- | |
| ½ | 1B | -287968 | 21955 | -71 | -1828 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.77 | 0.17 | -- | -- | |
| ½ | 1C | -287776 | 21955 | -80 | -1813 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.76 | 0.17 | -- | -- | |
| ½ | 1D | -287968 | 21955 | -80 | -1828 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.77 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -287641 | 22030 | -65 | -1802 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.76 | 0.17 | -- | -- | |
| ½ | 1J | -288103 | 22030 | -65 | -1838 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.77 | 0.17 | -- | -- | |
| ½ | 1K | -287641 | 22030 | -87 | -1802 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.76 | 0.17 | -- | -- | |
| ½ | 1L | -288103 | 22030 | -87 | -1838 | -- | -- | -- | -4.14 | 0.30 | 1.00 | 0.32 | 3.77 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -50402 | 5246 | -74 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1B | -50402 | 5246 | -74 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1C | -50402 | 5246 | -75 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1D | -50402 | 5246 | -75 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50401 | 5269 | -74 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1J | -50403 | 5269 | -74 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1K | -50401 | 5269 | -75 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1L | -50403 | 5269 | -75 | 15 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.38 | 3.38 | 0.22 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -49297 | 2592 | -13 | -103 | -- | -- | -- | -3.96 | 0.28 | 1.00 | 0.21 | 3.63 | 0.11 | -- | -- | |
| l | 1B | -49332 | 2592 | -13 | -99 | -- | -- | -- | -3.96 | 0.28 | 1.00 | 0.21 | 3.63 | 0.11 | -- | -- | |
| l | 1C | -49297 | 2592 | -15 | -103 | -- | -- | -- | -3.96 | 0.28 | 1.00 | 0.21 | 3.63 | 0.11 | -- | -- | |
| l | 1D | -49332 | 2592 | -15 | -99 | -- | -- | -- | -3.96 | 0.28 | 1.00 | 0.21 | 3.63 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -49274 | 2598 | -12 | -106 | -- | -- | -- | -3.96 | 0.28 | 1.00 | 0.21 | 3.63 | 0.12 | -- | -- | |
| l | 1J | -49355 | 2598 | -12 | -97 | -- | -- | -- | -3.97 | 0.28 | 1.00 | 0.21 | 3.63 | 0.11 | -- | -- | |
| l | 1K | -49274 | 2598 | -16 | -106 | -- | -- | -- | -3.96 | 0.28 | 1.00 | 0.21 | 3.63 | 0.12 | -- | -- | |
| l | 1L | -49355 | 2598 | -16 | -97 | -- | -- | -- | -3.97 | 0.28 | 1.00 | 0.21 | 3.63 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -248702 | 32201 | -2429 | -710 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1B | -248828 | 32201 | -2429 | -724 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1C | -248702 | 32201 | -2437 | -710 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1D | -248828 | 32201 | -2437 | -724 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -248615 | 32255 | -2424 | -701 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1J | -248916 | 32255 | -2424 | -733 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1K | -248615 | 32255 | -2442 | -701 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1L | -248916 | 32255 | -2442 | -733 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.52 | 3.67 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -47454 | 4681 | -152 | -97 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1B | -47457 | 4681 | -152 | -97 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1C | -47454 | 4681 | -153 | -97 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1D | -47457 | 4681 | -153 | -97 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47452 | 4692 | -152 | -97 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1J | -47459 | 4692 | -152 | -98 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1K | -47452 | 4692 | -153 | -97 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1L | -47459 | 4692 | -153 | -98 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.38 | 3.52 | 0.21 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -54272 | 2667 | -949 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1B | -54287 | 2667 | -949 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1C | -54272 | 2667 | -949 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1D | -54287 | 2667 | -949 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -54262 | 2682 | -948 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1J | -54298 | 2682 | -948 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1K | -54262 | 2682 | -949 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1L | -54298 | 2682 | -949 | 723 | -- | -- | -- | -4.42 | 0.32 | 1.00 | 0.22 | 3.97 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -204665 | 41302 | -3588 | 1533 | -- | -- | -- | -4.16 | 0.30 | 1.00 | 0.84 | 3.78 | 0.44 | -- | -- | |
| ½ | 1B | -204794 | 41302 | -3588 | 1545 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.84 | 3.79 | 0.44 | -- | -- | |
| ½ | 1C | -204665 | 41302 | -3589 | 1533 | -- | -- | -- | -4.16 | 0.30 | 1.00 | 0.84 | 3.78 | 0.44 | -- | -- | |
| ½ | 1D | -204794 | 41302 | -3589 | 1545 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.84 | 3.79 | 0.44 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -204575 | 41359 | -3587 | 1525 | -- | -- | -- | -4.16 | 0.30 | 1.00 | 0.84 | 3.78 | 0.45 | -- | -- | |
| ½ | 1J | -204884 | 41359 | -3587 | 1553 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.84 | 3.79 | 0.44 | -- | -- | |
| ½ | 1K | -204575 | 41359 | -3590 | 1525 | -- | -- | -- | -4.16 | 0.30 | 1.00 | 0.84 | 3.78 | 0.45 | -- | -- | |
| ½ | 1L | -204884 | 41359 | -3590 | 1553 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.84 | 3.79 | 0.44 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -46991 | 10163 | -135 | -86 | -- | -- | -- | -3.82 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1B | -46997 | 10163 | -135 | -86 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1C | -46991 | 10163 | -135 | -86 | -- | -- | -- | -3.82 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1D | -46997 | 10163 | -135 | -86 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46987 | 10177 | -135 | -87 | -- | -- | -- | -3.82 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1J | -47002 | 10177 | -135 | -86 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1K | -46987 | 10177 | -135 | -87 | -- | -- | -- | -3.82 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1L | -47002 | 10177 | -135 | -86 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.83 | 3.53 | 0.47 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -45824 | 5330 | -2310 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1B | -45827 | 5330 | -2310 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1C | -45824 | 5330 | -2311 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1D | -45827 | 5330 | -2311 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -45823 | 5339 | -2310 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1J | -45828 | 5339 | -2310 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1K | -45823 | 5339 | -2311 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1L | -45828 | 5339 | -2311 | -622 | -- | -- | -- | -4.12 | 0.29 | 1.00 | 0.48 | 3.75 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -143179 | 13535 | -3066 | 1756 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.30 | 3.08 | 0.20 | -- | -- | |
| ½ | 1B | -143226 | 13535 | -3066 | 1750 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.30 | 3.08 | 0.20 | -- | -- | |
| ½ | 1C | -143179 | 13535 | -3068 | 1756 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.30 | 3.08 | 0.20 | -- | -- | |
| ½ | 1D | -143226 | 13535 | -3068 | 1750 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.30 | 3.08 | 0.20 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -143146 | 13580 | -3065 | 1760 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.31 | 3.07 | 0.20 | -- | -- | |
| ½ | 1J | -143259 | 13580 | -3065 | 1745 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.31 | 3.08 | 0.20 | -- | -- | |
| ½ | 1K | -143146 | 13580 | -3070 | 1760 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.31 | 3.07 | 0.20 | -- | -- | |
| ½ | 1L | -143259 | 13580 | -3070 | 1745 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.31 | 3.08 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -39349 | 1143 | -513 | 124 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1B | -39353 | 1143 | -513 | 123 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1C | -39349 | 1143 | -514 | 124 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1D | -39353 | 1143 | -514 | 123 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -39345 | 1153 | -513 | 124 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1J | -39357 | 1153 | -513 | 123 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1K | -39345 | 1153 | -514 | 124 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1L | -39357 | 1153 | -514 | 123 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.10 | 3.32 | 0.06 | 0.01 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -28106 | 2649 | -150 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.20 | -- | -- | |
| l | 1B | -28110 | 2649 | -150 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.20 | -- | -- | |
| l | 1C | -28106 | 2649 | -151 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.20 | -- | -- | |
| l | 1D | -28110 | 2649 | -151 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -28103 | 2657 | -150 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.21 | -- | -- | |
| l | 1J | -28113 | 2657 | -150 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.21 | -- | -- | |
| l | 1K | -28103 | 2657 | -152 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.21 | -- | -- | |
| l | 1L | -28113 | 2657 | -152 | 0 | -- | -- | -- | -3.85 | 0.27 | 1.00 | 0.36 | 3.55 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -183134 | 1889 | 1864 | 15 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1B | -183183 | 1889 | 1864 | 16 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1C | -183134 | 1889 | 1860 | 15 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1D | -183183 | 1889 | 1860 | 16 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -183099 | 1925 | 1866 | 14 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1J | -183218 | 1925 | 1866 | 17 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1K | -183099 | 1925 | 1858 | 14 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1L | -183218 | 1925 | 1858 | 17 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.04 | 3.65 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29346 | 612 | 1490 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.67 | 0.05 | 0.00 | 0.16 | |
| 0 | 1B | -29353 | 612 | 1490 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.67 | 0.05 | 0.00 | 0.16 | |
| 0 | 1C | -29346 | 612 | 1489 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.67 | 0.05 | 0.00 | 0.16 | |
| 0 | 1D | -29353 | 612 | 1489 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.67 | 0.05 | 0.00 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29342 | 616 | 1491 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.67 | 0.05 | 0.00 | 0.16 | |
| 0 | 1J | -29358 | 616 | 1491 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.68 | 0.05 | 0.00 | 0.16 | |
| 0 | 1K | -29342 | 616 | 1488 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.67 | 0.05 | 0.00 | 0.16 | |
| 0 | 1L | -29358 | 616 | 1488 | 0 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.08 | 3.68 | 0.05 | 0.00 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -67553 | 6799 | -763 | 4767 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1B | -67557 | 6799 | -763 | 4766 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1C | -67553 | 6799 | -767 | 4767 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1D | -67557 | 6799 | -767 | 4766 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -67551 | 6806 | -760 | 4767 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1J | -67560 | 6806 | -760 | 4765 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1K | -67551 | 6806 | -770 | 4767 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1L | -67560 | 6806 | -770 | 4765 | -- | -- | -- | -3.41 | 0.16 | 1.00 | 0.34 | 3.55 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -341758 | 41691 | 891 | -7534 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1B | -341805 | 41691 | 891 | -7526 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1C | -341758 | 41691 | 872 | -7534 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1D | -341805 | 41691 | 872 | -7526 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -341726 | 41722 | 905 | -7540 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1J | -341837 | 41722 | 905 | -7520 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1K | -341726 | 41722 | 858 | -7540 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1L | -341837 | 41722 | 858 | -7520 | -- | -- | -- | -3.45 | 0.16 | 1.00 | 0.42 | 3.58 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -74400 | 21926 | -5618 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1B | -74412 | 21926 | -5618 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1C | -74400 | 21926 | -5620 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1D | -74412 | 21926 | -5620 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -74392 | 21935 | -5616 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1J | -74420 | 21935 | -5616 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1K | -74392 | 21935 | -5622 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1L | -74420 | 21935 | -5622 | 2722 | -- | -- | -- | -3.75 | 0.18 | 1.00 | 1.11 | 3.80 | 0.58 | 0.05 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -141741 | 9528 | 8329 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1B | -141756 | 9528 | 8329 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1C | -141741 | 9528 | 8326 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1D | -141756 | 9528 | 8326 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -141731 | 9534 | 8332 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1J | -141766 | 9534 | 8332 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1K | -141731 | 9534 | 8324 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1L | -141766 | 9534 | 8324 | 6805 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.23 | 3.24 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -659570 | 71820 | 45575 | -7089 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1B | -659642 | 71820 | 45575 | -7089 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1C | -659570 | 71820 | 45565 | -7089 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1D | -659642 | 71820 | 45565 | -7089 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -659520 | 71833 | 45582 | -7088 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1J | -659692 | 71833 | 45582 | -7090 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1K | -659520 | 71833 | 45559 | -7088 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1L | -659692 | 71833 | 45559 | -7090 | -- | -- | -- | -3.20 | 0.23 | 1.00 | 0.35 | 3.06 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -122877 | 18892 | 1430 | 632 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1B | -122886 | 18892 | 1430 | 632 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1C | -122877 | 18892 | 1429 | 632 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1D | -122886 | 18892 | 1429 | 632 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -122871 | 18895 | 1430 | 633 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1J | -122893 | 18895 | 1430 | 631 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1K | -122871 | 18895 | 1429 | 633 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1L | -122893 | 18895 | 1429 | 631 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.46 | 2.89 | 0.32 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -114765 | 2195 | 5414 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.12 | 0.04 | -- | -- | |
| l | 1B | -114774 | 2195 | 5414 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.12 | 0.04 | -- | -- | |
| l | 1C | -114765 | 2195 | 5413 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.12 | 0.04 | -- | -- | |
| l | 1D | -114774 | 2195 | 5413 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.12 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -114759 | 2198 | 5415 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.11 | 0.04 | -- | -- | |
| l | 1J | -114781 | 2198 | 5415 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.12 | 0.04 | -- | -- | |
| l | 1K | -114759 | 2198 | 5412 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.11 | 0.04 | -- | -- | |
| l | 1L | -114781 | 2198 | 5412 | 1978 | -- | -- | -- | -4.61 | 0.33 | 1.00 | 0.09 | 4.12 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -468458 | 40649 | 35796 | 2475 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1B | -468498 | 40649 | 35796 | 2482 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1C | -468458 | 40649 | 35789 | 2475 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1D | -468498 | 40649 | 35789 | 2482 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -468430 | 40654 | 35801 | 2469 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1J | -468526 | 40654 | 35801 | 2487 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1K | -468430 | 40654 | 35784 | 2469 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1L | -468526 | 40654 | 35784 | 2487 | -- | -- | -- | -3.76 | 0.27 | 1.00 | 0.33 | 3.48 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -78109 | 1860 | 1319 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1B | -78114 | 1860 | 1319 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1C | -78109 | 1860 | 1318 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1D | -78114 | 1860 | 1318 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -78106 | 1861 | 1319 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1J | -78117 | 1861 | 1319 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1K | -78106 | 1861 | 1318 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1L | -78117 | 1861 | 1318 | 101 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.07 | 3.01 | 0.05 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -110447 | 5544 | 154 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1B | -110454 | 5544 | 154 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1C | -110447 | 5544 | 153 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1D | -110454 | 5544 | 153 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -110442 | 5545 | 154 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1J | -110459 | 5545 | 154 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1K | -110442 | 5545 | 153 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1L | -110459 | 5545 | 153 | -611 | -- | -- | -- | -5.18 | 0.37 | 1.00 | 0.26 | 4.55 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -441586 | 46177 | 19054 | 9974 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.65 | 0.23 | -- | -- | |
| ½ | 1B | -441618 | 46177 | 19054 | 9978 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.66 | 0.23 | -- | -- | |
| ½ | 1C | -441586 | 46177 | 19051 | 9974 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.65 | 0.23 | -- | -- | |
| ½ | 1D | -441618 | 46177 | 19051 | 9978 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.66 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -441564 | 46181 | 19056 | 9971 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.65 | 0.23 | -- | -- | |
| ½ | 1J | -441640 | 46181 | 19056 | 9981 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.66 | 0.23 | -- | -- | |
| ½ | 1K | -441564 | 46181 | 19049 | 9971 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.65 | 0.23 | -- | -- | |
| ½ | 1L | -441640 | 46181 | 19049 | 9981 | -- | -- | -- | -3.99 | 0.29 | 1.00 | 0.42 | 3.66 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -61007 | 8316 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1B | -61011 | 8316 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1C | -61007 | 8316 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1D | -61011 | 8316 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -61005 | 8317 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1J | -61014 | 8317 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1K | -61005 | 8317 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1L | -61014 | 8317 | 854 | 820 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.45 | 3.11 | 0.29 | 0.02 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -96859 | 15114 | -11692 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1B | -96864 | 15114 | -11692 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1C | -96859 | 15114 | -11693 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1D | -96864 | 15114 | -11693 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -96856 | 15115 | -11691 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1J | -96868 | 15115 | -11691 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1K | -96856 | 15115 | -11694 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1L | -96868 | 15115 | -11694 | -9762 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.55 | 3.31 | 0.33 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -420843 | 45040 | -1755 | 4130 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1B | -420868 | 45040 | -1755 | 4132 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1C | -420843 | 45040 | -1758 | 4130 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1D | -420868 | 45040 | -1758 | 4132 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -420826 | 45043 | -1754 | 4128 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1J | -420885 | 45043 | -1754 | 4134 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1K | -420826 | 45043 | -1760 | 4128 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1L | -420885 | 45043 | -1760 | 4134 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.33 | 2.96 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -89378 | 8929 | -1260 | 529 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1B | -89384 | 8929 | -1260 | 530 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1C | -89378 | 8929 | -1260 | 529 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1D | -89384 | 8929 | -1260 | 530 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -89373 | 8929 | -1260 | 529 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1J | -89388 | 8929 | -1260 | 530 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1K | -89373 | 8929 | -1260 | 529 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1L | -89388 | 8929 | -1260 | 530 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.33 | 3.10 | 0.21 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -36836 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.39 | 0.16 | -- | -- | |
| l | 1B | -36840 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | -- | -- | |
| l | 1C | -36836 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.39 | 0.16 | -- | -- | |
| l | 1D | -36840 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -36833 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.39 | 0.16 | -- | -- | |
| l | 1J | -36843 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | -- | -- | |
| l | 1K | -36833 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.39 | 0.16 | -- | -- | |
| l | 1L | -36843 | 3073 | -2064 | -120 | -- | -- | -- | -2.31 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -240013 | 17721 | -7092 | -562 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1B | -240037 | 17721 | -7092 | -561 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1C | -240013 | 17721 | -7093 | -562 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1D | -240037 | 17721 | -7093 | -561 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -239996 | 17723 | -7091 | -562 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1J | -240054 | 17723 | -7091 | -561 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1K | -239996 | 17723 | -7093 | -562 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1L | -240054 | 17723 | -7093 | -561 | -- | -- | -- | -3.01 | 0.22 | 1.00 | 0.22 | 2.92 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -56270 | 3094 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1B | -56274 | 3094 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1C | -56270 | 3094 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1D | -56274 | 3094 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -56266 | 3095 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1J | -56278 | 3095 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1K | -56266 | 3095 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1L | -56278 | 3095 | -1229 | -107 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.19 | 3.31 | 0.12 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -40024 | 537 | -1237 | -632 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1B | -40035 | 537 | -1237 | -632 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1C | -40024 | 537 | -1239 | -632 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1D | -40035 | 537 | -1239 | -632 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -40017 | 540 | -1235 | -631 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1J | -40042 | 540 | -1235 | -633 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1K | -40017 | 540 | -1241 | -631 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1L | -40042 | 540 | -1241 | -633 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.04 | 2.89 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -222178 | 17616 | -3507 | 366 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1B | -222241 | 17616 | -3507 | 363 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1C | -222178 | 17616 | -3522 | 366 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1D | -222241 | 17616 | -3522 | 363 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -222135 | 17625 | -3496 | 367 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1J | -222285 | 17625 | -3496 | 362 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1K | -222135 | 17625 | -3533 | 367 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1L | -222285 | 17625 | -3533 | 362 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.26 | 3.13 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48029 | 4459 | -870 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1B | -48039 | 4459 | -870 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1C | -48029 | 4459 | -871 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1D | -48039 | 4459 | -871 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48022 | 4460 | -869 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1J | -48046 | 4460 | -869 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1K | -48022 | 4460 | -872 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1L | -48046 | 4460 | -872 | 202 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.33 | 3.33 | 0.20 | 0.01 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -45221 | 1078 | 2128 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1B | -45227 | 1078 | 2128 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1C | -45221 | 1078 | 2127 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1D | -45227 | 1078 | 2127 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -45216 | 1079 | 2129 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1J | -45231 | 1079 | 2129 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1K | -45216 | 1079 | 2127 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1L | -45231 | 1079 | 2127 | -44 | -- | -- | -- | -2.85 | 0.20 | 1.00 | 0.07 | 2.79 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -255961 | 9763 | 20216 | -339 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1B | -256002 | 9763 | 20216 | -340 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1C | -255961 | 9763 | 20210 | -339 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1D | -256002 | 9763 | 20210 | -340 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -255933 | 9768 | 20220 | -338 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1J | -256031 | 9768 | 20220 | -341 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1K | -255933 | 9768 | 20206 | -338 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1L | -256031 | 9768 | 20206 | -341 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.12 | 3.08 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -57202 | 2966 | 716 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1B | -57212 | 2966 | 716 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1C | -57202 | 2966 | 716 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1D | -57212 | 2966 | 716 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -57196 | 2967 | 716 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1J | -57219 | 2967 | 716 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1K | -57196 | 2967 | 715 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1L | -57219 | 2967 | 715 | -74 | -- | -- | -- | -3.60 | 0.26 | 1.00 | 0.19 | 3.36 | 0.11 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -62382 | 683 | 6023 | -443 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1B | -62386 | 683 | 6023 | -444 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1C | -62382 | 683 | 6022 | -443 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1D | -62386 | 683 | 6022 | -444 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -62379 | 685 | 6024 | -443 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1J | -62388 | 685 | 6024 | -444 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1K | -62379 | 685 | 6021 | -443 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1L | -62388 | 685 | 6021 | -444 | -- | -- | -- | -2.71 | 0.19 | 1.00 | 0.03 | 2.70 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -383249 | 5595 | 47639 | 1443 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1B | -383287 | 5595 | 47639 | 1441 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1C | -383249 | 5595 | 47627 | 1443 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1D | -383287 | 5595 | 47627 | 1441 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -383222 | 5601 | 47648 | 1443 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1J | -383313 | 5601 | 47648 | 1440 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1K | -383222 | 5601 | 47619 | 1443 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1L | -383313 | 5601 | 47619 | 1440 | -- | -- | -- | -3.21 | 0.23 | 1.00 | 0.05 | 3.07 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -82376 | 991 | 1464 | 496 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1B | -82385 | 991 | 1464 | 495 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1C | -82376 | 991 | 1464 | 496 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1D | -82385 | 991 | 1464 | 495 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -82369 | 991 | 1465 | 496 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1J | -82392 | 991 | 1465 | 495 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1K | -82369 | 991 | 1463 | 496 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1L | -82392 | 991 | 1463 | 495 | -- | -- | -- | -3.58 | 0.26 | 1.00 | 0.04 | 3.35 | 0.03 | 0.01 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -79245 | 1588 | 6979 | 4971 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1B | -79249 | 1588 | 6979 | 4972 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1C | -79245 | 1588 | 6976 | 4971 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1D | -79249 | 1588 | 6976 | 4972 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -79242 | 1593 | 6981 | 4970 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1J | -79252 | 1593 | 6981 | 4973 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1K | -79242 | 1593 | 6973 | 4970 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1L | -79252 | 1593 | 6973 | 4973 | -- | -- | -- | -3.38 | 0.24 | 1.00 | 0.07 | 3.19 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -533172 | 37953 | 60551 | 12197 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1B | -533208 | 37953 | 60551 | 12206 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1C | -533172 | 37953 | 60527 | 12197 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1D | -533208 | 37953 | 60527 | 12206 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -533147 | 37984 | 60568 | 12190 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1J | -533233 | 37984 | 60568 | 12212 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1K | -533147 | 37984 | 60509 | 12190 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1L | -533233 | 37984 | 60509 | 12212 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.25 | 3.33 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -82731 | 5879 | 1459 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1B | -82738 | 5879 | 1459 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1C | -82731 | 5879 | 1457 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1D | -82738 | 5879 | 1457 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -82727 | 5883 | 1459 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1J | -82742 | 5883 | 1459 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1K | -82727 | 5883 | 1456 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1L | -82742 | 5883 | 1456 | -927 | -- | -- | -- | -3.53 | 0.25 | 1.00 | 0.25 | 3.31 | 0.15 | 0.01 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -69770 | 893 | 2964 | 201 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1B | -69777 | 893 | 2964 | 202 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1C | -69770 | 893 | 2963 | 201 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1D | -69777 | 893 | 2963 | 202 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -69766 | 898 | 2965 | 200 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1J | -69781 | 898 | 2965 | 203 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1K | -69766 | 898 | 2963 | 200 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1L | -69781 | 898 | 2963 | 203 | -- | -- | -- | -4.72 | 0.34 | 1.00 | 0.06 | 4.20 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -286842 | 22663 | 21736 | -1292 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1B | -286911 | 22663 | 21736 | -1296 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1C | -286842 | 22663 | 21723 | -1292 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1D | -286911 | 22663 | 21723 | -1296 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -286794 | 22684 | 21745 | -1290 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1J | -286960 | 22684 | 21745 | -1298 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1K | -286794 | 22684 | 21714 | -1290 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1L | -286960 | 22684 | 21714 | -1298 | -- | -- | -- | -3.88 | 0.28 | 1.00 | 0.31 | 3.57 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -50674 | 1726 | 658 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1B | -50679 | 1726 | 658 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1C | -50674 | 1726 | 657 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1D | -50679 | 1726 | 657 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50670 | 1733 | 658 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1J | -50683 | 1733 | 658 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1K | -50670 | 1733 | 657 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1L | -50683 | 1733 | 657 | 38 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.12 | 3.23 | 0.07 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -60538 | 3373 | -911 | -1644 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1B | -60543 | 3373 | -911 | -1644 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1C | -60538 | 3373 | -916 | -1644 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1D | -60543 | 3373 | -916 | -1644 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -60534 | 3375 | -908 | -1645 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1J | -60547 | 3375 | -908 | -1643 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1K | -60534 | 3375 | -919 | -1645 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1L | -60547 | 3375 | -919 | -1643 | -- -- | -- | -3.70 | 0.26 | 1.00 | 0.21 | 3.44 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -383252 | 47267 | -2970 | -9992 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1B | -383333 | 47267 | -2970 | -10008 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1C | -383252 | 47267 | -2987 | -9992 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1D | -383333 | 47267 | -2987 | -10008 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -383195 | 47303 | -2958 | -9982 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1J | -383390 | 47303 | -2958 | -10018 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1K | -383195 | 47303 | -2998 | -9982 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1L | -383390 | 47303 | -2998 | -10018 | -- -- | -- | -3.67 | 0.26 | 1.00 | 0.45 | 3.41 | 0.27 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -59563 | 7248 | 59 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.32 | 0.26 | 0.01 | 0.00 | |
| 0 | 1B | -59572 | 7248 | 59 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.33 | 0.26 | 0.01 | 0.00 | |
| 0 | 1C | -59563 | 7248 | 57 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.32 | 0.26 | 0.01 | 0.00 | |
| 0 | 1D | -59572 | 7248 | 57 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.33 | 0.26 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -59557 | 7254 | 60 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.32 | 0.26 | 0.01 | 0.00 | |
| 0 | 1J | -59578 | 7254 | 60 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.33 | 0.26 | 0.01 | 0.00 | |
| 0 | 1K | -59557 | 7254 | 56 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.32 | 0.26 | 0.01 | 0.00 | |
| 0 | 1L | -59578 | 7254 | 56 | 374 | -- -- | -- | -3.55 | 0.25 | 1.00 | 0.43 | 3.33 | 0.26 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -46569 | 2112 | -195 | 1318 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1B | -46572 | 2112 | -195 | 1318 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1C | -46569 | 2112 | -195 | 1318 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1D | -46572 | 2112 | -195 | 1318 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -46566 | 2112 | -194 | 1317 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1J | -46574 | 2112 | -194 | 1319 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1K | -46566 | 2112 | -195 | 1317 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1L | -46574 | 2112 | -195 | 1319 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.17 | 3.45 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -375048 | 40934 | -1451 | 4296 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1B | -375080 | 40934 | -1451 | 4295 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1C | -375048 | 40934 | -1454 | 4296 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1D | -375080 | 40934 | -1454 | 4295 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -375025 | 40947 | -1449 | 4296 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1J | -375102 | 40947 | -1449 | 4295 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1K | -375025 | 40947 | -1457 | 4296 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1L | -375102 | 40947 | -1457 | 4295 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.39 | 3.32 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -62830 | 4328 | 334 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1B | -62837 | 4328 | 334 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1C | -62830 | 4328 | 334 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1D | -62837 | 4328 | 334 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -62825 | 4331 | 335 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1J | -62842 | 4331 | 335 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1K | -62825 | 4331 | 333 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1L | -62842 | 4331 | 333 | 244 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.25 | 3.42 | 0.15 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -87623 | 1209 | 330 | 582 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1B | -87627 | 1209 | 330 | 582 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1C | -87623 | 1209 | 329 | 582 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1D | -87627 | 1209 | 329 | 582 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -87620 | 1210 | 330 | 582 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1J | -87630 | 1210 | 330 | 581 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1K | -87620 | 1210 | 329 | 582 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1L | -87630 | 1210 | 329 | 581 | -- | -- | -- | -4.34 | 0.31 | 1.00 | 0.06 | 3.91 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -376174 | 26390 | 9077 | 3 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1B | -376196 | 26390 | 9077 | 5 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1C | -376174 | 26390 | 9077 | 3 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1D | -376196 | 26390 | 9077 | 5 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -376159 | 26396 | 9078 | 2 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1J | -376211 | 26396 | 9078 | 6 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1K | -376159 | 26396 | 9076 | 2 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1L | -376211 | 26396 | 9076 | 6 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.26 | 3.45 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -75725 | 2073 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1B | -75730 | 2073 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1C | -75725 | 2073 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1D | -75730 | 2073 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -75721 | 2076 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1J | -75734 | 2076 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1K | -75721 | 2076 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1L | -75734 | 2076 | 457 | 105 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.10 | 3.47 | 0.06 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -89093 | 1467 | -1183 | 728 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1B | -89094 | 1467 | -1183 | 727 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1C | -89093 | 1467 | -1183 | 728 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1D | -89094 | 1467 | -1183 | 727 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -89092 | 1467 | -1183 | 728 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1J | -89096 | 1467 | -1183 | 727 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1K | -89092 | 1467 | -1183 | 728 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1L | -89096 | 1467 | -1183 | 727 | -- -- | -- | -4.66 | 0.33 | 1.00 | 0.08 | 4.16 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -399192 | 61896 | -3005 | 2415 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1B | -399198 | 61896 | -3005 | 2414 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1C | -399192 | 61896 | -3006 | 2415 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1D | -399198 | 61896 | -3006 | 2414 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -399188 | 61898 | -3004 | 2415 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1J | -399202 | 61898 | -3004 | 2414 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1K | -399188 | 61898 | -3007 | 2415 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1L | -399202 | 61898 | -3007 | 2414 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.65 | 3.79 | 0.34 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -72980 | 6199 | -1123 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1B | -72982 | 6199 | -1123 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1C | -72980 | 6199 | -1123 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1D | -72982 | 6199 | -1123 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -72978 | 6200 | -1122 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1J | -72983 | 6200 | -1122 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1K | -72978 | 6200 | -1123 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1L | -72983 | 6200 | -1123 | 167 | -- -- | -- | -3.82 | 0.27 | 1.00 | 0.32 | 3.52 | 0.18 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -120482 | 8696 | 358 | -364 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1B | -120483 | 8696 | 358 | -364 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1C | -120482 | 8696 | 357 | -364 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1D | -120483 | 8696 | 357 | -364 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -120481 | 8697 | 358 | -365 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1J | -120483 | 8697 | 358 | -364 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1K | -120481 | 8697 | 356 | -365 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1L | -120483 | 8697 | 356 | -364 | -- -- | -- | -5.06 | 0.36 | 1.00 | 0.36 | 4.45 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -507176 | 52380 | 12490 | 18688 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1B | -507189 | 52380 | 12490 | 18689 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1C | -507176 | 52380 | 12488 | 18688 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1D | -507189 | 52380 | 12488 | 18689 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -507167 | 52384 | 12491 | 18687 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1J | -507198 | 52384 | 12491 | 18690 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1K | -507167 | 52384 | 12487 | 18687 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1L | -507198 | 52384 | 12487 | 18690 | -- -- | -- | -4.26 | 0.30 | 1.00 | 0.44 | 3.85 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -89017 | 10429 | 737 | -941 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1B | -89018 | 10429 | 737 | -941 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1C | -89017 | 10429 | 737 | -941 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1D | -89018 | 10429 | 737 | -941 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -89016 | 10430 | 737 | -941 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1J | -89019 | 10430 | 737 | -940 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1K | -89016 | 10430 | 737 | -941 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1L | -89019 | 10430 | 737 | -940 | -- -- | -- | -3.74 | 0.27 | 1.00 | 0.44 | 3.46 | 0.25 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -126150 | 7314 | 2039 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1B | -126154 | 7314 | 2039 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1C | -126150 | 7314 | 2036 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1D | -126154 | 7314 | 2036 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -126147 | 7316 | 2041 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1J | -126157 | 7316 | 2041 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1K | -126147 | 7316 | 2034 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1L | -126157 | 7316 | 2034 | -46 | -- | -- | -- | -5.13 | 0.37 | 1.00 | 0.30 | 4.51 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -492930 | 39493 | 9208 | 16613 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1B | -492952 | 39493 | 9208 | 16620 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1C | -492930 | 39493 | 9204 | 16613 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1D | -492952 | 39493 | 9204 | 16620 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -492915 | 39500 | 9210 | 16607 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1J | -492967 | 39500 | 9210 | 16626 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1K | -492915 | 39500 | 9201 | 16607 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1L | -492967 | 39500 | 9201 | 16626 | -- | -- | -- | -4.01 | 0.29 | 1.00 | 0.32 | 3.67 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -87106 | 9294 | -1920 | -534 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1B | -87109 | 9294 | -1920 | -534 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1C | -87106 | 9294 | -1922 | -534 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1D | -87109 | 9294 | -1922 | -534 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -87104 | 9296 | -1919 | -535 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1J | -87112 | 9296 | -1919 | -534 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1K | -87104 | 9296 | -1923 | -535 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1L | -87112 | 9296 | -1923 | -534 | -- | -- | -- | -3.54 | 0.25 | 1.00 | 0.38 | 3.32 | 0.23 | 0.01 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -79707 | 6112 | 2278 | -4474 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1B | -79711 | 6112 | 2278 | -4474 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1C | -79707 | 6112 | 2277 | -4474 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1D | -79711 | 6112 | 2277 | -4474 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -79705 | 6113 | 2278 | -4473 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1J | -79714 | 6113 | 2278 | -4474 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1K | -79705 | 6113 | 2276 | -4473 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1L | -79714 | 6113 | 2276 | -4474 | -- | -- | -- | -4.29 | 0.31 | 1.00 | 0.33 | 3.87 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -339577 | 19434 | 17787 | 408 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1B | -339595 | 19434 | 17787 | 409 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1C | -339577 | 19434 | 17786 | 408 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1D | -339595 | 19434 | 17786 | 409 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -339564 | 19439 | 17788 | 407 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1J | -339607 | 19439 | 17788 | 410 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1K | -339564 | 19439 | 17785 | 407 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1L | -339607 | 19439 | 17785 | 410 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.21 | 3.40 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -66185 | 4082 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1B | -66190 | 4082 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1C | -66185 | 4082 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1D | -66190 | 4082 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -66182 | 4083 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1J | -66192 | 4083 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1K | -66182 | 4083 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1L | -66192 | 4083 | 376 | 627 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.22 | 3.33 | 0.13 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -19790 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1B | -19792 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1C | -19790 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1D | -19792 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -19788 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1J | -19794 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1K | -19788 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1L | -19794 | 2125 | 214 | 0 | -- | -- | -- | -2.37 | 0.17 | 1.00 | 0.25 | 2.44 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -127587 | 14967 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1B | -127600 | 14967 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1C | -127587 | 14967 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1D | -127600 | 14967 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -127577 | 14968 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1J | -127609 | 14968 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1K | -127577 | 14968 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1L | -127609 | 14968 | -761 | 0 | -- | -- | -- | -3.06 | 0.22 | 1.00 | 0.36 | 2.95 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -30574 | 2721 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1B | -30577 | 2721 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1C | -30574 | 2721 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1D | -30577 | 2721 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -30572 | 2722 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1J | -30579 | 2722 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1K | -30572 | 2722 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1L | -30579 | 2722 | -666 | 0 | -- | -- | -- | -3.66 | 0.26 | 1.00 | 0.33 | 3.41 | 0.19 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -16143 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1B | -16143 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1C | -16143 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1D | -16143 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -16142 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1J | -16143 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1K | -16142 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1L | -16143 | 50 | -41 | 0 | -- | -- | -- | -3.86 | 0.18 | 1.00 | 0.01 | 3.88 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -94084 | 2713 | 432 | 0 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1B | -94088 | 2713 | 432 | 0 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1C | -94084 | 2713 | 430 | 0 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1D | -94088 | 2713 | 430 | 0 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -94081 | 2714 | 434 | 0 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1J | -94091 | 2714 | 434 | 0 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1K | -94081 | 2714 | 429 | 0 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1L | -94091 | 2714 | 429 | 0 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.13 | 4.36 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -25779 | 5346 | 773 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1B | -25781 | 5346 | 773 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1C | -25779 | 5346 | 772 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1D | -25781 | 5346 | 772 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -25778 | 5347 | 774 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1J | -25782 | 5347 | 774 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1K | -25778 | 5347 | 771 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1L | -25782 | 5347 | 771 | 0 | -- | -- | -- | -6.16 | 0.29 | 1.00 | 1.28 | 5.61 | 0.46 | 0.00 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -44139 | 2823 | -333 | 459 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1B | -44151 | 2823 | -333 | 463 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1C | -44139 | 2823 | -334 | 459 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1D | -44151 | 2823 | -334 | 463 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -44130 | 2827 | -332 | 456 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1J | -44160 | 2827 | -332 | 465 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1K | -44130 | 2827 | -334 | 456 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1L | -44160 | 2827 | -334 | 465 | -- | -- | -- | -2.91 | 0.14 | 1.00 | 0.19 | 3.17 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -445213 | 45649 | 4635 | -15780 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1B | -445249 | 45649 | 4635 | -15782 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1C | -445213 | 45649 | 4625 | -15780 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1D | -445249 | 45649 | 4625 | -15782 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -445188 | 45676 | 4642 | -15778 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1J | -445275 | 45676 | 4642 | -15784 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1K | -445188 | 45676 | 4618 | -15778 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1L | -445275 | 45676 | 4618 | -15784 | -- | -- | -- | -4.90 | 0.23 | 1.00 | 0.50 | 4.66 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -106604 | 26702 | 7471 | -18366 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.25 | 0.56 | 0.33 | 0.27 | |
| 0 | 1B | -106624 | 26702 | 7471 | -18374 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.26 | 0.56 | 0.33 | 0.27 | |
| 0 | 1C | -106604 | 26702 | 7467 | -18366 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.25 | 0.56 | 0.33 | 0.27 | |
| 0 | 1D | -106624 | 26702 | 7467 | -18374 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.26 | 0.56 | 0.33 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -106590 | 26708 | 7473 | -18361 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.25 | 0.56 | 0.33 | 0.27 | |
| 0 | 1J | -106638 | 26708 | 7473 | -18379 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.26 | 0.56 | 0.33 | 0.27 | |
| 0 | 1K | -106590 | 26708 | 7465 | -18361 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.25 | 0.56 | 0.33 | 0.27 | |
| 0 | 1L | -106638 | 26708 | 7465 | -18379 | -- | -- | -- | -7.02 | 0.33 | 1.00 | 1.76 | 6.26 | 0.56 | 0.33 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -79086 | 6507 | 188 | 1865 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1B | -79101 | 6507 | 188 | 1858 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1C | -79086 | 6507 | 187 | 1865 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1D | -79101 | 6507 | 187 | 1858 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -79076 | 6515 | 188 | 1871 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1J | -79111 | 6515 | 188 | 1852 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1K | -79076 | 6515 | 187 | 1871 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1L | -79111 | 6515 | 187 | 1852 | -- | -- | -- | -4.26 | 0.20 | 1.00 | 0.35 | 4.18 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -534492 | 41859 | 7307 | 11092 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.12 | 0.16 | -- | -- | |
| ½ | 1B | -534528 | 41859 | 7307 | 11088 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.12 | 0.16 | -- | -- | |
| ½ | 1C | -534492 | 41859 | 7306 | 11092 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.12 | 0.16 | -- | -- | |
| ½ | 1D | -534528 | 41859 | 7306 | 11088 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.12 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -534466 | 41923 | 7309 | 11095 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.12 | 0.16 | -- | -- | |
| ½ | 1J | -534554 | 41923 | 7309 | 11085 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.13 | 0.16 | -- | -- | |
| ½ | 1K | -534466 | 41923 | 7304 | 11095 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.12 | 0.16 | -- | -- | |
| ½ | 1L | -534554 | 41923 | 7304 | 11085 | -- | -- | -- | -4.18 | 0.20 | 1.00 | 0.33 | 4.13 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -79621 | 5580 | 215 | 42 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1B | -79624 | 5580 | 215 | 41 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1C | -79621 | 5580 | 215 | 42 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1D | -79624 | 5580 | 215 | 41 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -79618 | 5589 | 215 | 42 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1J | -79627 | 5589 | 215 | 41 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1K | -79618 | 5589 | 215 | 42 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1L | -79627 | 5589 | 215 | 41 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.92 | 0.14 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -91108 | 4576 | -221 | -1372 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1B | -91122 | 4576 | -221 | -1365 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1C | -91108 | 4576 | -222 | -1372 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1D | -91122 | 4576 | -222 | -1365 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -91098 | 4585 | -220 | -1377 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1J | -91132 | 4585 | -220 | -1360 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1K | -91098 | 4585 | -223 | -1377 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1L | -91132 | 4585 | -223 | -1360 | -- | -- | -- | -4.65 | 0.22 | 1.00 | 0.23 | 4.48 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -597396 | 49770 | 1526 | 9809 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1B | -597432 | 49770 | 1526 | 9818 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1C | -597396 | 49770 | 1523 | 9809 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1D | -597432 | 49770 | 1523 | 9818 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -597371 | 49832 | 1528 | 9803 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1J | -597457 | 49832 | 1528 | 9824 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1K | -597371 | 49832 | 1521 | 9803 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1L | -597457 | 49832 | 1521 | 9824 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.42 | 4.80 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -121959 | 16942 | 6343 | 13111 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 0.86 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1B | -121962 | 16942 | 6343 | 13111 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 0.86 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1C | -121959 | 16942 | 6342 | 13111 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 0.86 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1D | -121962 | 16942 | 6342 | 13111 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 0.86 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -121956 | 16952 | 6343 | 13110 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 0.87 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1J | -121965 | 16952 | 6343 | 13111 | -- | -- | -- | -6.23 | 0.30 | 1.00 | 0.87 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1K | -121956 | 16952 | 6342 | 13110 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 0.87 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1L | -121965 | 16952 | 6342 | 13111 | -- | -- | -- | -6.23 | 0.30 | 1.00 | 0.87 | 5.66 | 0.31 | 0.15 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -116892 | 12477 | -3870 | -1032 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.51 | 0.23 | -- | -- | |
| l | 1B | -116906 | 12477 | -3870 | -1033 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.51 | 0.23 | -- | -- | |
| l | 1C | -116892 | 12477 | -3870 | -1032 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.51 | 0.23 | -- | -- | |
| l | 1D | -116906 | 12477 | -3870 | -1033 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.51 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -116882 | 12485 | -3869 | -1031 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.51 | 0.23 | -- | -- | |
| l | 1J | -116915 | 12485 | -3869 | -1035 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.52 | 0.23 | -- | -- | |
| l | 1K | -116882 | 12485 | -3870 | -1031 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.51 | 0.23 | -- | -- | |
| l | 1L | -116915 | 12485 | -3870 | -1035 | -- | -- | -- | -6.03 | 0.29 | 1.00 | 0.64 | 5.52 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -582940 | 34931 | 4534 | 6000 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1B | -582985 | 34931 | 4534 | 6007 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1C | -582940 | 34931 | 4533 | 6000 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1D | -582985 | 34931 | 4533 | 6007 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -582908 | 34987 | 4535 | 5995 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1J | -583017 | 34987 | 4535 | 6012 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1K | -582908 | 34987 | 4532 | 5995 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1L | -583017 | 34987 | 4532 | 6012 | -- | -- | -- | -5.01 | 0.24 | 1.00 | 0.30 | 4.75 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -94504 | 5572 | 3043 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1B | -94514 | 5572 | 3043 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1C | -94504 | 5572 | 3042 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1D | -94514 | 5572 | 3042 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -94498 | 5580 | 3043 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1J | -94520 | 5580 | 3043 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1K | -94498 | 5580 | 3042 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1L | -94520 | 5580 | 3042 | 22 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 0.29 | 4.65 | 0.12 | 0.00 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -79871 | 10135 | 1019 | -1016 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1B | -79885 | 10135 | 1019 | -1017 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1C | -79871 | 10135 | 1018 | -1016 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1D | -79885 | 10135 | 1018 | -1017 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -79862 | 10140 | 1021 | -1015 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1J | -79894 | 10140 | 1021 | -1017 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1K | -79862 | 10140 | 1017 | -1015 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1L | -79894 | 10140 | 1017 | -1017 | -- | -- | -- | -6.28 | 0.30 | 1.00 | 0.80 | 5.70 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -504802 | 57280 | 1155 | -4234 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1B | -504889 | 57280 | 1155 | -4237 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1C | -504802 | 57280 | 1153 | -4234 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1D | -504889 | 57280 | 1153 | -4237 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -504742 | 57314 | 1157 | -4233 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1J | -504949 | 57314 | 1157 | -4239 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1K | -504742 | 57314 | 1151 | -4233 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1L | -504949 | 57314 | 1151 | -4239 | -- | -- | -- | -5.31 | 0.25 | 1.00 | 0.60 | 4.97 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -107589 | 10791 | 4077 | -2233 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1B | -107608 | 10791 | 4077 | -2233 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1C | -107589 | 10791 | 4075 | -2233 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1D | -107608 | 10791 | 4075 | -2233 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -107577 | 10798 | 4079 | -2233 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1J | -107620 | 10798 | 4079 | -2232 | -- | -- | -- | -5.11 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1K | -107577 | 10798 | 4074 | -2233 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1L | -107620 | 10798 | 4074 | -2232 | -- | -- | -- | -5.11 | 0.24 | 1.00 | 0.51 | 4.82 | 0.21 | 0.02 | 0.12 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -42025 | 6700 | -45 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1B | -42028 | 6700 | -45 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1C | -42025 | 6700 | -45 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1D | -42028 | 6700 | -45 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -42023 | 6700 | -44 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1J | -42030 | 6700 | -44 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1K | -42023 | 6700 | -45 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1L | -42030 | 6700 | -45 | 1164 | -- | -- | -- | -4.02 | 0.29 | 1.00 | 0.64 | 3.67 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -189102 | 31557 | -2812 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1B | -189107 | 31557 | -2812 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1C | -189102 | 31557 | -2813 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1D | -189107 | 31557 | -2813 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -189099 | 31560 | -2811 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1J | -189110 | 31560 | -2811 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1K | -189099 | 31560 | -2814 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1L | -189110 | 31560 | -2814 | 2819 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.60 | 3.37 | 0.36 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -37294 | 3874 | -1094 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.33 | 0.22 | 0.00 | 0.08 | |
| 0 | 1B | -37297 | 3874 | -1094 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.34 | 0.22 | 0.00 | 0.08 | |
| 0 | 1C | -37294 | 3874 | -1094 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.33 | 0.22 | 0.00 | 0.08 | |
| 0 | 1D | -37297 | 3874 | -1094 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.34 | 0.22 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -37293 | 3875 | -1094 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.33 | 0.22 | 0.00 | 0.08 | |
| 0 | 1J | -37298 | 3875 | -1094 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.34 | 0.22 | 0.00 | 0.08 | |
| 0 | 1K | -37293 | 3875 | -1095 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.33 | 0.22 | 0.00 | 0.08 | |
| 0 | 1L | -37298 | 3875 | -1095 | -18 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.37 | 3.34 | 0.22 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -279073 | 50112 | 188 | 1144 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.70 | 0.39 | -- | -- | |
| l | 1B | -279127 | 50112 | 188 | 1119 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.71 | 0.39 | -- | -- | |
| l | 1C | -279073 | 50112 | 183 | 1144 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.70 | 0.39 | -- | -- | |
| l | 1D | -279127 | 50112 | 183 | 1119 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.71 | 0.39 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -279035 | 50130 | 191 | 1162 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.70 | 0.39 | -- | -- | |
| l | 1J | -279164 | 50130 | 191 | 1101 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.71 | 0.39 | -- | -- | |
| l | 1K | -279035 | 50130 | 180 | 1162 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.70 | 0.39 | -- | -- | |
| l | 1L | -279164 | 50130 | 180 | 1101 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.73 | 3.71 | 0.39 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -1413201 | 244063 | 887 | 50890 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1B | -1413479 | 244063 | 887 | 50781 | -- | -- | -- | -4.20 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1C | -1413201 | 244063 | 870 | 50890 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1D | -1413479 | 244063 | 870 | 50781 | -- | -- | -- | -4.20 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -1413007 | 244111 | 900 | 50967 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1J | -1413674 | 244111 | 900 | 50705 | -- | -- | -- | -4.20 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1K | -1413007 | 244111 | 857 | 50967 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1L | -1413674 | 244111 | 857 | 50705 | -- | -- | -- | -4.20 | 0.30 | 1.00 | 0.72 | 3.81 | 0.38 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -296865 | 52210 | 1771 | 19634 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1B | -296921 | 52210 | 1771 | 19630 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1C | -296865 | 52210 | 1768 | 19634 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1D | -296921 | 52210 | 1768 | 19630 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -296826 | 52219 | 1773 | 19637 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1J | -296960 | 52219 | 1773 | 19627 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1K | -296826 | 52219 | 1767 | 19637 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1L | -296960 | 52219 | 1767 | 19627 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.74 | 3.80 | 0.39 | 0.03 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -128139 | 22939 | 1044 | 9532 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1B | -128165 | 22939 | 1044 | 9535 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1C | -128139 | 22939 | 1043 | 9532 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1D | -128165 | 22939 | 1043 | 9535 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -128121 | 22944 | 1045 | 9530 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1J | -128183 | 22944 | 1045 | 9537 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1K | -128121 | 22944 | 1043 | 9530 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1L | -128183 | 22944 | 1043 | 9537 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 1.02 | 3.27 | 0.62 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -623471 | 85949 | 5892 | 7372 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1B | -623583 | 85949 | 5892 | 7376 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1C | -623471 | 85949 | 5888 | 7372 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1D | -623583 | 85949 | 5888 | 7376 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -623393 | 85968 | 5894 | 7369 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1J | -623660 | 85968 | 5894 | 7379 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1K | -623393 | 85968 | 5885 | 7369 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1L | -623660 | 85968 | 5885 | 7379 | -- | -- | -- | -4.68 | 0.16 | 1.00 | 0.64 | 2.86 | 0.45 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -103425 | 11190 | -2075 | -334 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1B | -103443 | 11190 | -2075 | -333 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1C | -103425 | 11190 | -2078 | -334 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1D | -103443 | 11190 | -2078 | -333 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -103412 | 11192 | -2072 | -334 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1J | -103455 | 11192 | -2072 | -333 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1K | -103412 | 11192 | -2081 | -334 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1L | -103455 | 11192 | -2081 | -333 | -- | -- | -- | -4.19 | 0.14 | 1.00 | 0.45 | 2.67 | 0.34 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 64 Descrizione: Maschio murario n. 64
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -65838 | 50448 | -163 | -59926 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1B | -65858 | 50448 | -163 | -59952 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1C | -65838 | 50448 | -164 | -59926 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1D | -65858 | 50448 | -164 | -59952 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -65824 | 50460 | -162 | -59908 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1J | -65872 | 50460 | -162 | -59970 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1K | -65824 | 50460 | -165 | -59908 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1L | -65872 | 50460 | -165 | -59970 | -- | -- | -- | -1.10 | 0.05 | 1.00 | 0.84 | 1.81 | 0.93 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -859713 | 304895 | -22623 | -197966 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1B | -859821 | 304895 | -22623 | -198070 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1C | -859713 | 304895 | -22632 | -197966 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1D | -859821 | 304895 | -22632 | -198070 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -859637 | 304985 | -22617 | -197893 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1J | -859897 | 304985 | -22617 | -198142 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1K | -859637 | 304985 | -22638 | -197893 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1L | -859897 | 304985 | -22638 | -198142 | -- | -- | -- | -2.84 | 0.14 | 1.00 | 1.01 | 3.12 | 0.65 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -253543 | 49195 | -9480 | -13607 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1B | -253573 | 49195 | -9480 | -13616 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1C | -253543 | 49195 | -9484 | -13607 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1D | -253573 | 49195 | -9484 | -13616 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -253523 | 49214 | -9478 | -13600 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1J | -253593 | 49214 | -9478 | -13623 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1K | -253523 | 49214 | -9486 | -13600 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1L | -253593 | 49214 | -9486 | -13623 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.82 | 4.15 | 0.39 | 0.02 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -64270 | 11958 | -410 | 1980 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1B | -64283 | 11958 | -410 | 1979 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1C | -64270 | 11958 | -410 | 1980 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1D | -64283 | 11958 | -410 | 1979 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -64261 | 11960 | -409 | 1980 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1J | -64292 | 11960 | -409 | 1979 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1K | -64261 | 11960 | -410 | 1980 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1L | -64292 | 11960 | -410 | 1979 | -- -- | -- | -2.91 | 0.14 | 1.00 | 0.54 | 3.17 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -386777 | 34345 | -513 | -38222 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1B | -386840 | 34345 | -513 | -38235 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1C | -386777 | 34345 | -515 | -38222 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1D | -386840 | 34345 | -515 | -38235 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -386733 | 34364 | -512 | -38213 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1J | -386884 | 34364 | -512 | -38243 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1K | -386733 | 34364 | -515 | -38213 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1L | -386884 | 34364 | -515 | -38243 | -- -- | -- | -4.38 | 0.21 | 1.00 | 0.39 | 4.27 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -103572 | 21058 | -380 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1B | -103581 | 21058 | -380 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1C | -103572 | 21058 | -380 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1D | -103581 | 21058 | -380 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -103567 | 21061 | -379 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1J | -103587 | 21061 | -379 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1K | -103567 | 21061 | -380 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1L | -103587 | 21061 | -380 | -24428 | -- -- | -- | -4.69 | 0.22 | 1.00 | 0.95 | 4.51 | 0.42 | 0.26 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -45006 | 14646 | -99 | 1750 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1B | -45007 | 14646 | -99 | 1750 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1C | -45006 | 14646 | -101 | 1750 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1D | -45007 | 14646 | -101 | 1750 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -45006 | 14646 | -98 | 1751 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1J | -45008 | 14646 | -98 | 1750 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1K | -45006 | 14646 | -101 | 1751 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1L | -45008 | 14646 | -101 | 1750 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 1.32 | 4.04 | 0.66 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -319466 | 23252 | 3283 | 307 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1B | -319480 | 23252 | 3283 | 306 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1C | -319466 | 23252 | 3279 | 307 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1D | -319480 | 23252 | 3279 | 306 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -319455 | 23256 | 3285 | 307 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1J | -319491 | 23256 | 3285 | 305 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1K | -319455 | 23256 | 3276 | 307 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1L | -319491 | 23256 | 3276 | 305 | -- | -- | -- | -4.58 | 0.22 | 1.00 | 0.33 | 4.42 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -61100 | 12890 | 1842 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1B | -61102 | 12890 | 1842 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1C | -61100 | 12890 | 1840 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1D | -61102 | 12890 | 1840 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -61099 | 12891 | 1844 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1J | -61103 | 12891 | 1844 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1K | -61099 | 12891 | 1838 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1L | -61103 | 12891 | 1838 | -4100 | -- | -- | -- | -5.53 | 0.26 | 1.00 | 1.17 | 5.13 | 0.45 | 0.21 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -138037 | 9512 | -3841 | -5489 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1B | -138042 | 9512 | -3841 | -5490 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1C | -138037 | 9512 | -3848 | -5489 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1D | -138042 | 9512 | -3848 | -5490 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -138034 | 9513 | -3836 | -5488 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1J | -138044 | 9513 | -3836 | -5490 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1K | -138034 | 9513 | -3853 | -5488 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1L | -138044 | 9513 | -3853 | -5490 | -- | -- | -- | -4.50 | 0.21 | 1.00 | 0.31 | 4.37 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -809275 | 70740 | -18361 | -27286 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1B | -809308 | 70740 | -18361 | -27288 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1C | -809275 | 70740 | -18385 | -27286 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1D | -809308 | 70740 | -18385 | -27288 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -809251 | 70747 | -18344 | -27285 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1J | -809332 | 70747 | -18344 | -27290 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1K | -809251 | 70747 | -18402 | -27285 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1L | -809332 | 70747 | -18402 | -27290 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.39 | 4.33 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -162962 | 25784 | -4283 | 1257 | -- | -- | -- | -4.78 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1B | -162969 | 25784 | -4283 | 1260 | -- | -- | -- | -4.78 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1C | -162962 | 25784 | -4284 | 1257 | -- | -- | -- | -4.78 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1D | -162969 | 25784 | -4284 | 1260 | -- | -- | -- | -4.78 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -162956 | 25785 | -4283 | 1256 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1J | -162974 | 25785 | -4283 | 1261 | -- | -- | -- | -4.78 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1K | -162956 | 25785 | -4285 | 1256 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1L | -162974 | 25785 | -4285 | 1261 | -- | -- | -- | -4.78 | 0.23 | 1.00 | 0.76 | 4.57 | 0.33 | 0.01 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 542.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -79796 | 10568 | -357 | 1435 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1B | -79807 | 10568 | -357 | 1433 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1C | -79796 | 10568 | -360 | 1435 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1D | -79807 | 10568 | -360 | 1433 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -79788 | 10571 | -354 | 1437 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1J | -79815 | 10571 | -354 | 1432 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1K | -79788 | 10571 | -363 | 1437 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1L | -79815 | 10571 | -363 | 1432 | -- | -- | -- | -4.09 | 0.19 | 1.00 | 0.54 | 4.06 | 0.27 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -414869 | 52565 | -3272 | 13916 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1B | -414889 | 52565 | -3272 | 13914 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1C | -414869 | 52565 | -3287 | 13916 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1D | -414889 | 52565 | -3287 | 13914 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -414855 | 52573 | -3261 | 13917 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1J | -414903 | 52573 | -3261 | 13912 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1K | -414855 | 52573 | -3298 | 13917 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1L | -414903 | 52573 | -3298 | 13912 | -- | -- | -- | -4.25 | 0.20 | 1.00 | 0.54 | 4.18 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -87959 | 9493 | -4671 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1B | -87963 | 9493 | -4671 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1C | -87959 | 9493 | -4675 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1D | -87963 | 9493 | -4675 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -87957 | 9494 | -4668 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1J | -87965 | 9494 | -4668 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1K | -87957 | 9494 | -4678 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1L | -87965 | 9494 | -4678 | 6088 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.49 | 4.37 | 0.22 | 0.09 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -131967 | 13169 | 450 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1B | -131969 | 13169 | 450 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1C | -131967 | 13169 | 449 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1D | -131969 | 13169 | 449 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -131966 | 13170 | 450 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1J | -131970 | 13170 | 450 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1K | -131966 | 13170 | 449 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1L | -131970 | 13170 | 449 | 1182 | -- | -- | -- | -4.22 | 0.20 | 1.00 | 0.42 | 4.15 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -650036 | 79335 | 1750 | -6979 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1B | -650042 | 79335 | 1750 | -6977 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1C | -650036 | 79335 | 1748 | -6979 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1D | -650042 | 79335 | 1748 | -6977 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -650032 | 79343 | 1752 | -6980 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1J | -650047 | 79343 | 1752 | -6975 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1K | -650032 | 79343 | 1746 | -6980 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1L | -650047 | 79343 | 1746 | -6975 | -- | -- | -- | -4.16 | 0.20 | 1.00 | 0.51 | 4.11 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -127254 | 17084 | 649 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1B | -127256 | 17084 | 649 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1C | -127254 | 17084 | 649 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1D | -127256 | 17084 | 649 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -127253 | 17086 | 649 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1J | -127257 | 17086 | 649 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1K | -127253 | 17086 | 648 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1L | -127257 | 17086 | 648 | -95 | -- | -- | -- | -4.07 | 0.19 | 1.00 | 0.55 | 4.04 | 0.27 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -84130 | 5607 | 382 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1B | -84132 | 5607 | 382 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1C | -84130 | 5607 | 381 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1D | -84132 | 5607 | 381 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -84129 | 5608 | 382 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1J | -84133 | 5608 | 382 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1K | -84129 | 5608 | 381 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1L | -84133 | 5608 | 381 | 3689 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.27 | 4.02 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -569209 | 44399 | 1095 | -24972 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1B | -569220 | 44399 | 1095 | -24975 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1C | -569209 | 44399 | 1093 | -24972 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1D | -569220 | 44399 | 1093 | -24975 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -569201 | 44403 | 1096 | -24970 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1J | -569228 | 44403 | 1096 | -24977 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1K | -569201 | 44403 | 1091 | -24970 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1L | -569228 | 44403 | 1091 | -24977 | -- | -- | -- | -5.08 | 0.24 | 1.00 | 0.40 | 4.80 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -112376 | 23195 | -126 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1B | -112377 | 23195 | -126 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1C | -112376 | 23195 | -127 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1D | -112377 | 23195 | -127 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -112376 | 23196 | -126 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1J | -112377 | 23196 | -126 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1K | -112376 | 23196 | -127 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1L | -112377 | 23196 | -127 | -22312 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 1.11 | 5.03 | 0.44 | 0.28 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -72314 | 6863 | -287 | 556 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1B | -72321 | 6863 | -287 | 555 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1C | -72314 | 6863 | -287 | 556 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1D | -72321 | 6863 | -287 | 555 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -72310 | 6865 | -287 | 556 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1J | -72325 | 6865 | -287 | 554 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1K | -72310 | 6865 | -288 | 556 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1L | -72325 | 6865 | -288 | 554 | -- | -- | -- | -2.96 | 0.14 | 1.00 | 0.28 | 3.21 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -341928 | 41194 | 1413 | -1309 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1B | -341962 | 41194 | 1413 | -1312 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1C | -341928 | 41194 | 1412 | -1309 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1D | -341962 | 41194 | 1412 | -1312 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -341904 | 41215 | 1414 | -1308 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1J | -341986 | 41215 | 1414 | -1313 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1K | -341904 | 41215 | 1412 | -1308 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1L | -341986 | 41215 | 1412 | -1313 | -- | -- | -- | -3.43 | 0.16 | 1.00 | 0.41 | 3.56 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -87903 | 13200 | 1012 | 171 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1B | -87914 | 13200 | 1012 | 172 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1C | -87903 | 13200 | 1011 | 171 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1D | -87914 | 13200 | 1011 | 172 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -87896 | 13207 | 1013 | 171 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1J | -87921 | 13207 | 1013 | 173 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1K | -87896 | 13207 | 1010 | 171 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1L | -87921 | 13207 | 1010 | 173 | -- | -- | -- | -3.60 | 0.17 | 1.00 | 0.54 | 3.69 | 0.29 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 72 Descrizione: Maschio murario n. 72
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -62699 | 21368 | 382 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | . |
| l | 1B | -62701 | 21368 | 382 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | |
| l | 1C | -62699 | 21368 | 382 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | |
| l | 1D | -62701 | 21368 | 382 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -62697 | 21369 | 383 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | |
| l | 1J | -62703 | 21369 | 383 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | |
| l | 1K | -62697 | 21369 | 381 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | |
| l | 1L | -62703 | 21369 | 381 | -24543 | -- | -- | -- | -4.21 | 0.14 | 1.00 | 1.43 | 2.67 | 1.07 | -- | -- | . |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -378374 | 24373 | 2353 | -75356 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1B | -378395 | 24373 | 2353 | -75361 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1C | -378374 | 24373 | 2350 | -75356 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1D | -378395 | 24373 | 2350 | -75361 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -378359 | 24376 | 2356 | -75352 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1J | -378409 | 24376 | 2356 | -75365 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1K | -378359 | 24376 | 2348 | -75352 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1L | -378409 | 24376 | 2348 | -75365 | -- | -- | -- | -6.14 | 0.20 | 1.00 | 0.40 | 3.45 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -47770 | 4928 | 743 | -6249 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1B | -47774 | 4928 | 743 | -6252 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1C | -47770 | 4928 | 743 | -6249 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1D | -47774 | 4928 | 743 | -6252 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47768 | 4929 | 744 | -6247 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1J | -47777 | 4929 | 744 | -6254 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1K | -47768 | 4929 | 743 | -6247 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1L | -47777 | 4929 | 743 | -6254 | -- | -- | -- | -3.20 | 0.11 | 1.00 | 0.33 | 2.27 | 0.29 | 0.14 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 73 Descrizione: Maschio murario n. 73
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -64004 | 16839 | 272 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1B | -64006 | 16839 | 272 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1C | -64004 | 16839 | 271 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1D | -64006 | 16839 | 271 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -64003 | 16840 | 272 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1J | -64008 | 16840 | 272 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1K | -64003 | 16840 | 271 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1L | -64008 | 16840 | 271 | 31878 | -- | -- | -- | -4.29 | 0.14 | 1.00 | 1.13 | 2.71 | 0.83 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -259105 | 25815 | 2505 | 61304 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1B | -259116 | 25815 | 2505 | 61306 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1C | -259105 | 25815 | 2504 | 61304 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1D | -259116 | 25815 | 2504 | 61306 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -259097 | 25817 | 2505 | 61302 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1J | -259124 | 25817 | 2505 | 61308 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1K | -259097 | 25817 | 2503 | 61302 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1L | -259124 | 25817 | 2503 | 61308 | -- | -- | -- | -5.71 | 0.19 | 1.00 | 0.57 | 3.28 | 0.35 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -63452 | 9492 | 1215 | 15234 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1B | -63455 | 9492 | 1215 | 15236 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1C | -63452 | 9492 | 1215 | 15234 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1D | -63455 | 9492 | 1215 | 15236 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -63450 | 9492 | 1216 | 15233 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1J | -63457 | 9492 | 1216 | 15237 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1K | -63450 | 9492 | 1214 | 15233 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1L | -63457 | 9492 | 1214 | 15237 | -- | -- | -- | -4.25 | 0.14 | 1.00 | 0.64 | 2.69 | 0.47 | 0.27 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -51151 | 3518 | 1148 | 1099 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1B | -51163 | 3518 | 1148 | 1099 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1C | -51151 | 3518 | 1144 | 1099 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1D | -51163 | 3518 | 1144 | 1099 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -51142 | 3520 | 1150 | 1098 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1J | -51172 | 3520 | 1150 | 1099 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1K | -51142 | 3520 | 1141 | 1098 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1L | -51172 | 3520 | 1141 | 1099 | -- | -- | -- | -3.76 | 0.18 | 1.00 | 0.26 | 3.81 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -361608 | 35373 | 6719 | -3619 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.19 | -- | -- | |
| ½ | 1B | -361653 | 35373 | 6719 | -3623 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.19 | -- | -- | |
| ½ | 1C | -361608 | 35373 | 6710 | -3619 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.19 | -- | -- | |
| ½ | 1D | -361653 | 35373 | 6710 | -3623 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -361576 | 35398 | 6725 | -3617 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.20 | -- | -- | |
| ½ | 1J | -361685 | 35398 | 6725 | -3626 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.19 | -- | -- | |
| ½ | 1K | -361576 | 35398 | 6704 | -3617 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.20 | -- | -- | |
| ½ | 1L | -361685 | 35398 | 6704 | -3626 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.38 | 3.91 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -61735 | 15270 | 1148 | -5944 | -- | -- | -- | -4.53 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1B | -61754 | 15270 | 1148 | -5949 | -- | -- | -- | -4.54 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1C | -61735 | 15270 | 1147 | -5944 | -- | -- | -- | -4.53 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1D | -61754 | 15270 | 1147 | -5949 | -- | -- | -- | -4.54 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -61722 | 15273 | 1148 | -5941 | -- | -- | -- | -4.53 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1J | -61766 | 15273 | 1148 | -5952 | -- | -- | -- | -4.54 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1K | -61722 | 15273 | 1146 | -5941 | -- | -- | -- | -4.53 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1L | -61766 | 15273 | 1146 | -5952 | -- | -- | -- | -4.54 | 0.22 | 1.00 | 1.12 | 4.39 | 0.51 | 0.19 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -59269 | 5533 | -5 | -1648 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1B | -59272 | 5533 | -5 | -1649 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1C | -59269 | 5533 | -6 | -1648 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1D | -59272 | 5533 | -6 | -1649 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -59266 | 5542 | -4 | -1648 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1J | -59275 | 5542 | -4 | -1650 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1K | -59266 | 5542 | -7 | -1648 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1L | -59275 | 5542 | -7 | -1650 | -- | -- | -- | -3.70 | 0.18 | 1.00 | 0.35 | 3.77 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -349800 | 22013 | 7521 | 9818 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1B | -349846 | 22013 | 7521 | 9825 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1C | -349800 | 22013 | 7518 | 9818 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1D | -349846 | 22013 | 7518 | 9825 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -349769 | 22052 | 7523 | 9812 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1J | -349878 | 22052 | 7523 | 9831 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1K | -349769 | 22052 | 7515 | 9812 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1L | -349878 | 22052 | 7515 | 9831 | -- | -- | -- | -4.49 | 0.21 | 1.00 | 0.28 | 4.36 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -81122 | 13767 | 1426 | 10715 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1B | -81146 | 13767 | 1426 | 10723 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1C | -81122 | 13767 | 1424 | 10715 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1D | -81146 | 13767 | 1424 | 10723 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -81105 | 13773 | 1427 | 10709 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1J | -81163 | 13773 | 1427 | 10729 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1K | -81105 | 13773 | 1423 | 10709 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1L | -81163 | 13773 | 1423 | 10729 | -- | -- | -- | -5.07 | 0.24 | 1.00 | 0.86 | 4.79 | 0.36 | 0.23 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -117872 | 14963 | -841 | 3981 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.43 | 3.53 | 0.24 | -- | -- | |
| l | 1B | -117908 | 14963 | -841 | 3980 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.43 | 3.54 | 0.24 | -- | -- | |
| l | 1C | -117872 | 14963 | -843 | 3981 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.43 | 3.53 | 0.24 | -- | -- | |
| l | 1D | -117908 | 14963 | -843 | 3980 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.43 | 3.54 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -117847 | 14980 | -840 | 3982 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.43 | 3.53 | 0.24 | -- | -- | |
| l | 1J | -117933 | 14980 | -840 | 3979 | -- | -- | -- | -3.40 | 0.16 | 1.00 | 0.43 | 3.54 | 0.24 | -- | -- | |
| l | 1K | -117847 | 14980 | -844 | 3982 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.43 | 3.53 | 0.24 | -- | -- | |
| l | 1L | -117933 | 14980 | -844 | 3979 | -- | -- | -- | -3.40 | 0.16 | 1.00 | 0.43 | 3.54 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -676377 | 46798 | 2592 | -67389 | -- | -- | -- | -3.89 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1B | -676567 | 46798 | 2592 | -67471 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1C | -676377 | 46798 | 2586 | -67389 | -- | -- | -- | -3.89 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1D | -676567 | 46798 | 2586 | -67471 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -676244 | 46901 | 2596 | -67332 | -- | -- | -- | -3.89 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1J | -676700 | 46901 | 2596 | -67528 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1K | -676244 | 46901 | 2582 | -67332 | -- | -- | -- | -3.89 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1L | -676700 | 46901 | 2582 | -67528 | -- | -- | -- | -3.90 | 0.19 | 1.00 | 0.27 | 3.91 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -150002 | 18901 | -624 | -30803 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1B | -150028 | 18901 | -624 | -30815 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1C | -150002 | 18901 | -625 | -30803 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1D | -150028 | 18901 | -625 | -30815 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -149984 | 18921 | -624 | -30794 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1J | -150045 | 18921 | -624 | -30824 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1K | -149984 | 18921 | -626 | -30794 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1L | -150045 | 18921 | -626 | -30824 | -- | -- | -- | -4.32 | 0.21 | 1.00 | 0.54 | 4.23 | 0.26 | 0.16 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14562 | 2233 | -49 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1B | -14564 | 2233 | -49 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1C | -14562 | 2233 | -49 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1D | -14564 | 2233 | -49 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -14561 | 2235 | -48 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1J | -14565 | 2235 | -48 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1K | -14561 | 2235 | -49 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1L | -14565 | 2235 | -49 | 0 | -- | -- | -- | -3.02 | 0.14 | 1.00 | 0.46 | 3.25 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -81388 | 4101 | -1011 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1B | -81395 | 4101 | -1011 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1C | -81388 | 4101 | -1012 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1D | -81395 | 4101 | -1012 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -81383 | 4115 | -1010 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1J | -81400 | 4115 | -1010 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1K | -81383 | 4115 | -1013 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1L | -81400 | 4115 | -1013 | 0 | -- | -- | -- | -3.37 | 0.16 | 1.00 | 0.17 | 3.52 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -17658 | 862 | -390 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1B | -17662 | 862 | -390 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1C | -17658 | 862 | -391 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1D | -17662 | 862 | -391 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -17655 | 866 | -390 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1J | -17664 | 866 | -390 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1K | -17655 | 866 | -391 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1L | -17664 | 866 | -391 | 0 | -- | -- | -- | -3.66 | 0.17 | 1.00 | 0.18 | 3.74 | 0.10 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 78 Descrizione: Maschio murario n. 78 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -16999 | 8622 | -257 | -8886 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1B | -17002 | 8622 | -257 | -8887 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1C | -16999 | 8622 | -260 | -8886 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1D | -17002 | 8622 | -260 | -8887 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16997 | 8623 | -255 | -8885 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1J | -17004 | 8623 | -255 | -8888 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1K | -16997 | 8623 | -263 | -8885 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1L | -17004 | 8623 | -263 | -8888 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.43 | 1.29 | 0.66 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -276375 | 16994 | -3437 | -38643 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1B | -276415 | 16994 | -3437 | -38649 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1C | -276375 | 16994 | -3457 | -38643 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1D | -276415 | 16994 | -3457 | -38649 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -276346 | 16999 | -3423 | -38638 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1J | -276443 | 16999 | -3423 | -38653 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1K | -276346 | 16999 | -3470 | -38638 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1L | -276443 | 16999 | -3470 | -38653 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.14 | 2.40 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -67587 | 8081 | 4 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1B | -67595 | 8081 | 4 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1C | -67587 | 8081 | 3 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1D | -67595 | 8081 | 3 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -67581 | 8082 | 5 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1J | -67601 | 8082 | 5 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1K | -67581 | 8082 | 2 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1L | -67601 | 8082 | 2 | -1023 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.40 | 3.17 | 0.25 | 0.03 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 79 Descrizione: Maschio murario n. 79 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -1231 | 1904 | 0 | -26 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1B | -1232 | 1904 | 0 | -26 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1C | -1231 | 1904 | -0 | -26 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1D | -1232 | 1904 | -0 | -26 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1231 | 1904 | 1 | -27 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1J | -1233 | 1904 | 1 | -26 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1K | -1231 | 1904 | -1 | -27 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1L | -1233 | 1904 | -1 | -26 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.09 | 0.70 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -174592 | 19356 | -4170 | -8702 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1B | -174600 | 19356 | -4170 | -8700 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1C | -174592 | 19356 | -4178 | -8702 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1D | -174600 | 19356 | -4178 | -8700 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -174587 | 19358 | -4165 | -8703 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1J | -174605 | 19358 | -4165 | -8699 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1K | -174587 | 19358 | -4183 | -8703 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1L | -174605 | 19358 | -4183 | -8699 | -- | -- | -- | -1.32 | 0.09 | 1.00 | 0.15 | 1.65 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -50286 | 4060 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1B | -50288 | 4060 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1C | -50286 | 4060 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1D | -50288 | 4060 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50285 | 4061 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1J | -50289 | 4061 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1K | -50285 | 4061 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1L | -50289 | 4061 | -53 | 156 | -- | -- | -- | -2.32 | 0.17 | 1.00 | 0.19 | 2.40 | 0.16 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 80 Descrizione: Maschio murario n. 80 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -129003 | 42740 | -16 | 7234 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | . |
| l | 1B | -129009 | 42740 | -16 | 7234 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1C | -129003 | 42740 | -25 | 7234 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1D | -129009 | 42740 | -25 | 7234 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -128999 | 42741 | -9 | 7235 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1J | -129014 | 42741 | -9 | 7233 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1K | -128999 | 42741 | -31 | 7235 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1L | -129014 | 42741 | -31 | 7233 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.70 | 3.05 | 1.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -995409 | 48420 | 1867 | 33476 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1B | -995435 | 48420 | 1867 | 33472 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1C | -995409 | 48420 | 1840 | 33476 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1D | -995435 | 48420 | 1840 | 33472 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -995390 | 48423 | 1886 | 33479 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1J | -995453 | 48423 | 1886 | 33469 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1K | -995390 | 48423 | 1821 | 33479 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1L | -995453 | 48423 | 1821 | 33469 | -- | -- | -- | -6.19 | 0.21 | 1.00 | 0.30 | 3.46 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -175878 | 24310 | 16 | 713 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1B | -175885 | 24310 | 16 | 712 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1C | -175878 | 24310 | 15 | 713 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1D | -175885 | 24310 | 15 | 712 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -175873 | 24310 | 17 | 714 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1J | -175890 | 24310 | 17 | 712 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1K | -175873 | 24310 | 14 | 714 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1L | -175890 | 24310 | 14 | 712 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 0.97 | 3.79 | 0.51 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 81 Descrizione: Maschio murario n. 81 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -15787 | 9245 | 18 | 7153 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.78 | -- | -- | |
| l | 1B | -15793 | 9245 | 18 | 7156 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.78 | -- | -- | |
| l | 1C | -15787 | 9245 | 18 | 7153 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.78 | -- | -- | |
| l | 1D | -15793 | 9245 | 18 | 7156 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.78 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15783 | 9246 | 18 | 7151 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.79 | -- | -- | |
| l | 1J | -15798 | 9246 | 18 | 7158 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.78 | -- | -- | |
| l | 1K | -15783 | 9246 | 17 | 7151 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.79 | -- | -- | |
| l | 1L | -15798 | 9246 | 17 | 7158 | -- | -- | -- | -0.89 | 0.06 | 1.00 | 0.52 | 1.33 | 0.78 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -274161 | 18243 | -1860 | 23859 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1B | -274213 | 18243 | -1860 | 23866 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1C | -274161 | 18243 | -1870 | 23859 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1D | -274213 | 18243 | -1870 | 23866 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -274125 | 18251 | -1852 | 23854 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1J | -274249 | 18251 | -1852 | 23870 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1K | -274125 | 18251 | -1877 | 23854 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1L | -274249 | 18251 | -1877 | 23870 | -- | -- | -- | -2.72 | 0.19 | 1.00 | 0.18 | 2.70 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -64700 | 3138 | 104 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1B | -64708 | 3138 | 104 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1C | -64700 | 3138 | 102 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1D | -64708 | 3138 | 102 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -64694 | 3139 | 106 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1J | -64714 | 3139 | 106 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1K | -64694 | 3139 | 101 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1L | -64714 | 3139 | 101 | 773 | -- | -- | -- | -3.65 | 0.26 | 1.00 | 0.18 | 3.39 | 0.10 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 82 Descrizione: Maschio murario n. 82 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -17914 | 8486 | -8 | -10857 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1B | -17918 | 8486 | -8 | -10858 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1C | -17914 | 8486 | -11 | -10857 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1D | -17918 | 8486 | -11 | -10858 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -17912 | 8488 | -7 | -10856 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1J | -17920 | 8488 | -7 | -10859 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1K | -17912 | 8488 | -13 | -10856 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1L | -17920 | 8488 | -13 | -10859 | -- | -- | -- | -1.06 | 0.09 | 1.00 | 0.50 | 1.46 | 0.69 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -226742 | 15274 | -89 | -40916 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1B | -226776 | 15274 | -89 | -40921 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1C | -226742 | 15274 | -114 | -40916 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1D | -226776 | 15274 | -114 | -40921 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -226718 | 15278 | -72 | -40913 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1J | -226801 | 15278 | -72 | -40924 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1K | -226718 | 15278 | -132 | -40913 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1L | -226801 | 15278 | -132 | -40924 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.15 | 2.35 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -52644 | 7656 | -61 | -563 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1B | -52647 | 7656 | -61 | -564 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1C | -52644 | 7656 | -65 | -563 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1D | -52647 | 7656 | -65 | -564 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -52641 | 7657 | -58 | -563 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1J | -52650 | 7657 | -58 | -564 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1K | -52641 | 7657 | -68 | -563 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1L | -52650 | 7657 | -68 | -564 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.45 | 3.00 | 0.30 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 83 Descrizione: Maschio murario n. 83 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1100 | 1429 | 0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1B | -1101 | 1429 | 0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1C | -1100 | 1429 | -0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1D | -1101 | 1429 | -0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1099 | 1429 | 0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1J | -1102 | 1429 | 0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1K | -1099 | 1429 | -0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1L | -1102 | 1429 | -0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -166622 | 14897 | -1779 | -5558 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1B | -166631 | 14897 | -1779 | -5557 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1C | -166622 | 14897 | -1786 | -5558 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1D | -166631 | 14897 | -1786 | -5557 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -166616 | 14899 | -1774 | -5559 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1J | -166638 | 14899 | -1774 | -5556 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1K | -166616 | 14899 | -1791 | -5559 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1L | -166638 | 14899 | -1791 | -5556 | -- | -- | -- | -1.44 | 0.10 | 1.00 | 0.13 | 1.74 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -47777 | 3151 | -22 | 573 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1B | -47780 | 3151 | -22 | 572 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1C | -47777 | 3151 | -22 | 573 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1D | -47780 | 3151 | -22 | 572 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47775 | 3151 | -22 | 573 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1J | -47782 | 3151 | -22 | 572 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1K | -47775 | 3151 | -23 | 573 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1L | -47782 | 3151 | -23 | 572 | -- | -- | -- | -2.47 | 0.18 | 1.00 | 0.16 | 2.51 | 0.13 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 84 Descrizione: Maschio murario n. 84 pilastrone interrato
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -145359 | 48774 | -958 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | . |
| l | 1B | -145364 | 48774 | -958 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1C | -145359 | 48774 | -970 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1D | -145364 | 48774 | -970 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -145356 | 48775 | -949 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1J | -145367 | 48775 | -949 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1K | -145356 | 48775 | -979 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1L | -145367 | 48775 | -979 | 1770 | -- | -- | -- | -5.58 | 0.19 | 1.00 | 1.87 | 3.22 | 1.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -1107488 | 51078 | -4933 | 32194 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1B | -1107527 | 51078 | -4933 | 32190 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1C | -1107488 | 51078 | -4974 | 32194 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1D | -1107527 | 51078 | -4974 | 32190 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -1107460 | 51084 | -4904 | 32197 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1J | -1107555 | 51084 | -4904 | 32187 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1K | -1107460 | 51084 | -5003 | 32197 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1L | -1107555 | 51084 | -5003 | 32187 | -- | -- | -- | -6.60 | 0.22 | 1.00 | 0.30 | 3.63 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -193054 | 27230 | -54 | 3071 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1B | -193068 | 27230 | -54 | 3070 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1C | -193054 | 27230 | -57 | 3071 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1D | -193068 | 27230 | -57 | 3070 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -193043 | 27231 | -53 | 3071 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1J | -193078 | 27231 | -53 | 3069 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1K | -193043 | 27231 | -59 | 3071 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1L | -193078 | 27231 | -59 | 3069 | -- | -- | -- | -7.41 | 0.25 | 1.00 | 1.04 | 3.95 | 0.53 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 85 Descrizione: Maschio murario n. 85 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12900 | 8672 | -100 | 5883 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1B | -12902 | 8672 | -100 | 5884 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1C | -12900 | 8672 | -100 | 5883 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1D | -12902 | 8672 | -100 | 5884 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12899 | 8673 | -99 | 5883 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1J | -12903 | 8673 | -99 | 5884 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1K | -12899 | 8673 | -101 | 5883 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1L | -12903 | 8673 | -101 | 5884 | -- | -- | -- | -0.76 | 0.05 | 1.00 | 0.51 | 1.23 | 0.83 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -298637 | 20264 | 1450 | 36477 | -- | -- | -- | -3.03 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1B | -298669 | 20264 | 1450 | 36473 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1C | -298637 | 20264 | 1440 | 36477 | -- | -- | -- | -3.03 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1D | -298669 | 20264 | 1440 | 36473 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -298615 | 20271 | 1457 | 36480 | -- | -- | -- | -3.03 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1J | -298692 | 20271 | 1457 | 36471 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1K | -298615 | 20271 | 1432 | 36480 | -- | -- | -- | -3.03 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1L | -298692 | 20271 | 1432 | 36471 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.21 | 2.94 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -65001 | 5371 | 2291 | 1443 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1B | -65011 | 5371 | 2291 | 1443 | -- | -- | -- | -3.63 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1C | -65001 | 5371 | 2289 | 1443 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1D | -65011 | 5371 | 2289 | 1443 | -- | -- | -- | -3.63 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -64994 | 5372 | 2293 | 1444 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1J | -65019 | 5372 | 2293 | 1442 | -- | -- | -- | -3.63 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1K | -64994 | 5372 | 2287 | 1444 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1L | -65019 | 5372 | 2287 | 1442 | -- | -- | -- | -3.63 | 0.26 | 1.00 | 0.30 | 3.38 | 0.18 | 0.03 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 86 Descrizione: Maschio murario n. 86
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -49343 | 15879 | -38 | -27523 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1B | -49345 | 15879 | -38 | -27522 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1C | -49343 | 15879 | -38 | -27523 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1D | -49345 | 15879 | -38 | -27522 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -49342 | 15881 | -38 | -27523 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1J | -49346 | 15881 | -38 | -27522 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1K | -49342 | 15881 | -39 | -27523 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1L | -49346 | 15881 | -39 | -27522 | -- | -- | -- | -3.14 | 0.10 | 1.00 | 1.01 | 2.25 | 0.90 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -320487 | 20951 | -3962 | -68804 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1B | -320501 | 20951 | -3962 | -68805 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1C | -320487 | 20951 | -3964 | -68804 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1D | -320501 | 20951 | -3964 | -68805 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -320478 | 20962 | -3961 | -68804 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1J | -320510 | 20962 | -3961 | -68805 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1K | -320478 | 20962 | -3965 | -68804 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1L | -320510 | 20962 | -3965 | -68805 | -- | -- | -- | -5.08 | 0.17 | 1.00 | 0.33 | 3.02 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -51418 | 7256 | -993 | -5039 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1B | -51428 | 7256 | -993 | -5044 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1C | -51418 | 7256 | -993 | -5039 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1D | -51428 | 7256 | -993 | -5044 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51411 | 7260 | -993 | -5035 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1J | -51435 | 7260 | -993 | -5047 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1K | -51411 | 7260 | -994 | -5035 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1L | -51435 | 7260 | -994 | -5047 | -- | -- | -- | -3.28 | 0.11 | 1.00 | 0.46 | 2.30 | 0.40 | 0.10 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 87 Descrizione: Maschio murario n. 87
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -86001 | 53905 | -75 | -12300 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | . |
| l | 1B | -86014 | 53905 | -75 | -12306 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | . |
| l | 1C | -86001 | 53905 | -76 | -12300 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | |
| l | 1D | -86014 | 53905 | -76 | -12306 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | . |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -85992 | 53914 | -75 | -12295 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | . |
| l | 1J | -86022 | 53914 | -75 | -12310 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | |
| l | 1K | -85992 | 53914 | -76 | -12295 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | . | |
| l | 1L | -86022 | 53914 | -76 | -12310 | -- | -- | -- | -2.92 | 0.10 | 1.00 | 1.83 | 2.16 | 1.70 | -- | -- | . |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -548173 | 104146 | -3438 | -22381 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1B | -548233 | 104146 | -3438 | -22405 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1C | -548173 | 104146 | -3439 | -22381 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1D | -548233 | 104146 | -3439 | -22405 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -548132 | 104183 | -3437 | -22364 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1J | -548274 | 104183 | -3437 | -22422 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1K | -548132 | 104183 | -3441 | -22364 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1L | -548274 | 104183 | -3441 | -22422 | -- | -- | -- | -4.47 | 0.15 | 1.00 | 0.85 | 2.78 | 0.61 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -118059 | 21685 | -5111 | 4040 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1B | -118064 | 21685 | -5111 | 4038 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1C | -118059 | 21685 | -5111 | 4040 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1D | -118064 | 21685 | -5111 | 4038 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -118055 | 21690 | -5110 | 4042 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1J | -118068 | 21690 | -5110 | 4036 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1K | -118055 | 21690 | -5112 | 4042 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1L | -118068 | 21690 | -5112 | 4036 | -- | -- | -- | -4.00 | 0.13 | 1.00 | 0.74 | 2.59 | 0.57 | 0.02 | 0.15 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 89 Descrizione: Maschio murario n. 89 interrato lato scala
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -7484 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.53 | 0.82 | -- | -- | |
| l | 1B | -7485 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.53 | 0.82 | -- | -- | |
| l | 1C | -7484 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.53 | 0.82 | -- | -- | |
| l | 1D | -7485 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.53 | 0.82 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -7483 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.52 | 0.82 | -- | -- | |
| l | 1J | -7487 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.53 | 0.82 | -- | -- | |
| l | 1K | -7483 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.52 | 0.82 | -- | -- | |
| l | 1L | -7487 | 3181 | 61 | 0 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 1.44 | 3.53 | 0.82 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -125057 | 11765 | 294 | -1488 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1B | -125074 | 11765 | 294 | -1489 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1C | -125057 | 11765 | 292 | -1488 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1D | -125074 | 11765 | 292 | -1489 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -125045 | 11767 | 296 | -1488 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1J | -125086 | 11767 | 296 | -1489 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1K | -125045 | 11767 | 290 | -1488 | -- | -- | -- | -4.03 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1L | -125086 | 11767 | 290 | -1489 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -34967 | 6545 | -1715 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.91 | 0.43 | 0.00 | 0.27 | |
| 0 | 1B | -34975 | 6545 | -1715 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.91 | 0.43 | 0.00 | 0.27 | |
| 0 | 1C | -34967 | 6545 | -1720 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.91 | 0.43 | 0.00 | 0.27 | |
| 0 | 1D | -34975 | 6545 | -1720 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.91 | 0.43 | 0.00 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -34962 | 6546 | -1712 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.91 | 0.43 | 0.00 | 0.27 | |
| 0 | 1J | -34980 | 6546 | -1712 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.92 | 0.43 | 0.00 | 0.27 | |
| 0 | 1K | -34962 | 6546 | -1724 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.91 | 0.43 | 0.00 | 0.27 | |
| 0 | 1L | -34980 | 6546 | -1724 | 0 | -- | -- | -- | -7.90 | 0.38 | 1.00 | 1.48 | 6.92 | 0.43 | 0.00 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 90 Descrizione: Maschio murario n. 90 interrato lato scala
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -8907 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1B | -8910 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1C | -8907 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1D | -8910 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -8905 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1J | -8912 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1K | -8905 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1L | -8912 | 4561 | 58 | 0 | -- | -- | -- | -2.01 | 0.10 | 1.00 | 1.03 | 2.50 | 0.82 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -90389 | 6497 | 232 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1B | -90398 | 6497 | 232 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1C | -90389 | 6497 | 232 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1D | -90398 | 6497 | 232 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -90382 | 6498 | 233 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1J | -90405 | 6498 | 233 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1K | -90382 | 6498 | 231 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1L | -90405 | 6498 | 231 | 0 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.29 | 4.05 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -30045 | 8803 | -151 | 0 | -- | -- | -- | -6.79 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.03 | |
| 0 | 1B | -30049 | 8803 | -151 | 0 | -- | -- | -- | -6.79 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.03 | |
| 0 | 1C | -30045 | 8803 | -153 | 0 | -- | -- | -- | -6.79 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.03 | |
| 0 | 1D | -30049 | 8803 | -153 | 0 | -- | -- | -- | -6.79 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -30041 | 8804 | -151 | 0 | -- | -- | -- | -6.78 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.02 | |
| 0 | 1J | -30053 | 8804 | -151 | 0 | -- | -- | -- | -6.79 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.02 | |
| 0 | 1K | -30041 | 8804 | -153 | 0 | -- | -- | -- | -6.78 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.03 | |
| 0 | 1L | -30053 | 8804 | -153 | 0 | -- | -- | -- | -6.79 | 0.32 | 1.00 | 1.99 | 6.08 | 0.65 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 92 Descrizione: Maschio murario n. 92 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -28444 | 18763 | 274 | 18848 | -- | -- | -- | -1.40 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1B | -28448 | 18763 | 274 | 18850 | -- | -- | -- | -1.41 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1C | -28444 | 18763 | 274 | 18848 | -- | -- | -- | -1.40 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1D | -28448 | 18763 | 274 | 18850 | -- | -- | -- | -1.41 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -28441 | 18765 | 275 | 18846 | -- | -- | -- | -1.40 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1J | -28450 | 18765 | 275 | 18852 | -- | -- | -- | -1.41 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1K | -28441 | 18765 | 274 | 18846 | -- | -- | -- | -1.40 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1L | -28450 | 18765 | 274 | 18852 | -- | -- | -- | -1.41 | 0.07 | 1.00 | 0.93 | 2.04 | 0.91 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -422064 | 80874 | -801 | 27332 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1B | -422111 | 80874 | -801 | 27334 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1C | -422064 | 80874 | -804 | 27332 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1D | -422111 | 80874 | -804 | 27334 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -422031 | 80887 | -799 | 27330 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1J | -422144 | 80887 | -799 | 27336 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1K | -422031 | 80887 | -806 | 27330 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1L | -422144 | 80887 | -806 | 27336 | -- | -- | -- | -3.79 | 0.18 | 1.00 | 0.73 | 3.83 | 0.38 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -107889 | 27890 | 1084 | -25105 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1B | -107906 | 27890 | 1084 | -25113 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1C | -107889 | 27890 | 1080 | -25105 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1D | -107906 | 27890 | 1080 | -25113 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -107878 | 27893 | 1086 | -25100 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1J | -107918 | 27893 | 1086 | -25118 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1K | -107878 | 27893 | 1078 | -25100 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1L | -107918 | 27893 | 1078 | -25118 | -- | -- | -- | -4.82 | 0.23 | 1.00 | 1.25 | 4.60 | 0.54 | 0.28 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **1** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 93 Descrizione: Maschio murario n. 93 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -22609 | 13877 | 432 | -10463 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1B | -22611 | 13877 | 432 | -10463 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1C | -22609 | 13877 | 429 | -10463 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1D | -22611 | 13877 | 429 | -10463 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -22607 | 13878 | 434 | -10462 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1J | -22613 | 13878 | 434 | -10464 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1K | -22607 | 13878 | 427 | -10462 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1L | -22613 | 13878 | 427 | -10464 | -- | -- | -- | -1.15 | 0.05 | 1.00 | 0.70 | 1.85 | 0.76 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -310327 | 46770 | 2607 | 8165 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1B | -310366 | 46770 | 2607 | 8163 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1C | -310327 | 46770 | 2589 | 8165 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1D | -310366 | 46770 | 2589 | 8163 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -310301 | 46778 | 2620 | 8166 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1J | -310392 | 46778 | 2620 | 8162 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1K | -310301 | 46778 | 2576 | 8166 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1L | -310392 | 46778 | 2576 | 8162 | -- | -- | -- | -3.24 | 0.15 | 1.00 | 0.49 | 3.42 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -85529 | 19450 | 340 | 19477 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.47 | 0.31 | 0.01 | |
| 0 | 1B | -85542 | 19450 | 340 | 19481 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.46 | 0.31 | 0.01 | |
| 0 | 1C | -85529 | 19450 | 334 | 19477 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.47 | 0.31 | 0.01 | |
| 0 | 1D | -85542 | 19450 | 334 | 19481 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.46 | 0.31 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -85521 | 19453 | 343 | 19473 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.47 | 0.31 | 0.01 | |
| 0 | 1J | -85550 | 19453 | 343 | 19484 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.47 | 0.31 | 0.01 | |
| 0 | 1K | -85521 | 19453 | 331 | 19473 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.47 | 0.31 | 0.01 | |
| 0 | 1L | -85550 | 19453 | 331 | 19484 | -- | -- | -- | -4.34 | 0.21 | 1.00 | 0.99 | 4.25 | 0.47 | 0.31 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -165864 | 6666 | 9554 | -206 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1B | -165898 | 6666 | 9554 | -198 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1C | -165864 | 6666 | 9542 | -206 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1D | -165898 | 6666 | 9542 | -198 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -165841 | 6686 | 9562 | -211 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1J | -165922 | 6686 | 9562 | -193 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1K | -165841 | 6686 | 9534 | -211 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1L | -165922 | 6686 | 9534 | -193 | -- | -- | -- | -4.75 | 0.34 | 1.00 | 0.19 | 4.22 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -545185 | 38585 | 31553 | 458 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1B | -545348 | 38585 | 31553 | 473 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1C | -545185 | 38585 | 31533 | 458 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1D | -545348 | 38585 | 31533 | 473 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -545071 | 38639 | 31567 | 447 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1J | -545462 | 38639 | 31567 | 483 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1K | -545071 | 38639 | 31519 | 447 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1L | -545462 | 38639 | 31519 | 483 | -- | -- | -- | -3.90 | 0.28 | 1.00 | 0.28 | 3.59 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -116037 | 3553 | -657 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1B | -116049 | 3553 | -657 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1C | -116037 | 3553 | -658 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1D | -116049 | 3553 | -658 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -116029 | 3566 | -656 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1J | -116057 | 3566 | -656 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1K | -116029 | 3566 | -658 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1L | -116057 | 3566 | -658 | 67 | -- | -- | -- | -3.32 | 0.24 | 1.00 | 0.10 | 3.15 | 0.06 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -102063 | 5155 | 6574 | 278 | -- | -- | -- | -4.97 | 0.36 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1B | -102072 | 5155 | 6574 | 278 | -- | -- | -- | -4.97 | 0.36 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1C | -102063 | 5155 | 6558 | 278 | -- | -- | -- | -4.97 | 0.36 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1D | -102072 | 5155 | 6558 | 278 | -- | -- | -- | -4.97 | 0.36 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -102056 | 5170 | 6586 | 279 | -- | -- | -- | -4.97 | 0.35 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1J | -102079 | 5170 | 6586 | 278 | -- | -- | -- | -4.97 | 0.36 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1K | -102056 | 5170 | 6546 | 279 | -- | -- | -- | -4.97 | 0.35 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1L | -102079 | 5170 | 6546 | 278 | -- | -- | -- | -4.97 | 0.36 | 1.00 | 0.25 | 4.39 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -307675 | 23768 | 17867 | -2124 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1B | -307796 | 23768 | 17867 | -2123 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1C | -307675 | 23768 | 17842 | -2124 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1D | -307796 | 23768 | 17842 | -2123 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -307591 | 23811 | 17884 | -2126 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1J | -307880 | 23811 | 17884 | -2122 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1K | -307591 | 23811 | 17825 | -2126 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1L | -307880 | 23811 | 17825 | -2122 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -66414 | 3066 | -1035 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1B | -66423 | 3066 | -1035 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1C | -66414 | 3066 | -1037 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1D | -66423 | 3066 | -1037 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -66408 | 3077 | -1034 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1J | -66429 | 3077 | -1034 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1K | -66408 | 3077 | -1038 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1L | -66429 | 3077 | -1038 | 154 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.15 | 3.09 | 0.10 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -155034 | 7945 | 8640 | 799 | -- | -- | -- | -4.38 | 0.31 | 1.00 | 0.22 | 3.95 | 0.11 | -- | -- | |
| l | 1B | -155072 | 7945 | 8640 | 796 | -- | -- | -- | -4.39 | 0.31 | 1.00 | 0.22 | 3.95 | 0.11 | -- | -- | |
| l | 1C | -155034 | 7945 | 8612 | 799 | -- | -- | -- | -4.38 | 0.31 | 1.00 | 0.22 | 3.95 | 0.11 | -- | -- | |
| l | 1D | -155072 | 7945 | 8612 | 796 | -- | -- | -- | -4.39 | 0.31 | 1.00 | 0.22 | 3.95 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -155007 | 7964 | 8659 | 800 | -- | -- | -- | -4.38 | 0.31 | 1.00 | 0.23 | 3.95 | 0.11 | -- | -- | |
| l | 1J | -155098 | 7964 | 8659 | 794 | -- | -- | -- | -4.39 | 0.31 | 1.00 | 0.23 | 3.95 | 0.11 | -- | -- | |
| l | 1K | -155007 | 7964 | 8593 | 800 | -- | -- | -- | -4.38 | 0.31 | 1.00 | 0.23 | 3.95 | 0.11 | -- | -- | |
| l | 1L | -155098 | 7964 | 8593 | 794 | -- | -- | -- | -4.39 | 0.31 | 1.00 | 0.23 | 3.95 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -511070 | 39598 | 29018 | -10775 | -- | -- | -- | -3.61 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1B | -511261 | 39598 | 29018 | -10756 | -- | -- | -- | -3.61 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1C | -511070 | 39598 | 28978 | -10775 | -- | -- | -- | -3.61 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1D | -511261 | 39598 | 28978 | -10756 | -- | -- | -- | -3.61 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -510937 | 39668 | 29046 | -10788 | -- | -- | -- | -3.61 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1J | -511394 | 39668 | 29046 | -10743 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1K | -510937 | 39668 | 28950 | -10788 | -- | -- | -- | -3.61 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1L | -511394 | 39668 | 28950 | -10743 | -- | -- | -- | -3.62 | 0.26 | 1.00 | 0.28 | 3.37 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -111316 | 6837 | -892 | 621 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1B | -111339 | 6837 | -892 | 621 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1C | -111316 | 6837 | -897 | 621 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1D | -111339 | 6837 | -897 | 621 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -111299 | 6852 | -888 | 622 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1J | -111355 | 6852 | -888 | 620 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1K | -111299 | 6852 | -900 | 622 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1L | -111355 | 6852 | -900 | 620 | -- | -- | -- | -3.15 | 0.22 | 1.00 | 0.19 | 3.02 | 0.13 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 542.00 cm

| P os | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -90223 | 4823 | 4906 | 342 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1B | -90237 | 4823 | 4906 | 343 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1C | -90223 | 4823 | 4853 | 342 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1D | -90237 | 4823 | 4853 | 343 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -90213 | 4841 | 4943 | 341 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1J | -90246 | 4841 | 4943 | 343 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1K | -90213 | 4841 | 4816 | 341 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1L | -90246 | 4841 | 4816 | 343 | -- -- | -- | -4.18 | 0.30 | 1.00 | 0.22 | 3.80 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -281630 | 18476 | 16323 | -2444 | -- -- | -- | -3.26 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1B | -281797 | 18476 | 16323 | -2428 | -- -- | -- | -3.27 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1C | -281630 | 18476 | 16242 | -2444 | -- -- | -- | -3.26 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1D | -281797 | 18476 | 16242 | -2428 | -- -- | -- | -3.27 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -281514 | 18530 | 16379 | -2455 | -- -- | -- | -3.26 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1J | -281913 | 18530 | 16379 | -2417 | -- -- | -- | -3.27 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1K | -281514 | 18530 | 16186 | -2455 | -- -- | -- | -3.26 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1L | -281913 | 18530 | 16186 | -2417 | -- -- | -- | -3.27 | 0.23 | 1.00 | 0.21 | 3.11 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -65900 | 3689 | -1166 | 36 | -- -- | -- | -3.06 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1B | -65922 | 3689 | -1166 | 36 | -- -- | -- | -3.06 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1C | -65900 | 3689 | -1172 | 36 | -- -- | -- | -3.06 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1D | -65922 | 3689 | -1172 | 36 | -- -- | -- | -3.06 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -65884 | 3703 | -1161 | 37 | -- -- | -- | -3.05 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1J | -65938 | 3703 | -1161 | 35 | -- -- | -- | -3.06 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1K | -65884 | 3703 | -1176 | 37 | -- -- | -- | -3.05 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1L | -65938 | 3703 | -1176 | 35 | -- -- | -- | -3.06 | 0.22 | 1.00 | 0.17 | 2.95 | 0.12 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -131842 | 8166 | 5120 | -81 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1B | -131882 | 8166 | 5120 | -69 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1C | -131842 | 8166 | 5074 | -81 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1D | -131882 | 8166 | 5074 | -69 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -131814 | 8208 | 5152 | -89 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1J | -131910 | 8208 | 5152 | -61 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1K | -131814 | 8208 | 5042 | -89 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1L | -131910 | 8208 | 5042 | -61 | -- | -- | -- | -3.75 | 0.27 | 1.00 | 0.23 | 3.47 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -458506 | 25356 | 27206 | 8113 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1B | -458800 | 25356 | 27206 | 8170 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1C | -458506 | 25356 | 27114 | 8113 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1D | -458800 | 25356 | 27114 | 8170 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -458300 | 25463 | 27271 | 8073 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1J | -459006 | 25463 | 27271 | 8209 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1K | -458300 | 25463 | 27049 | 8073 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1L | -459006 | 25463 | 27049 | 8209 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.18 | 3.11 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -111607 | 5203 | -466 | -1550 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1B | -111657 | 5203 | -466 | -1554 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1C | -111607 | 5203 | -470 | -1550 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1D | -111657 | 5203 | -470 | -1554 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -111573 | 5233 | -463 | -1547 | -- | -- | -- | -3.17 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1J | -111691 | 5233 | -463 | -1557 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1K | -111573 | 5233 | -473 | -1547 | -- | -- | -- | -3.17 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1L | -111691 | 5233 | -473 | -1557 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.15 | 3.04 | 0.10 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -52930 | 1031 | 1306 | -0 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1B | -52954 | 1031 | 1306 | -0 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1C | -52930 | 1031 | 1270 | -0 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1D | -52954 | 1031 | 1270 | -0 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -52914 | 1040 | 1332 | -0 | -- | -- | -- | -4.18 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1J | -52971 | 1040 | 1332 | -0 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1K | -52914 | 1040 | 1245 | -0 | -- | -- | -- | -4.18 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1L | -52971 | 1040 | 1245 | -0 | -- | -- | -- | -4.19 | 0.30 | 1.00 | 0.08 | 3.80 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -180203 | 29424 | -322 | -0 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.58 | 3.33 | 0.35 | -- | -- | |
| ½ | 1B | -180390 | 29424 | -322 | -0 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.58 | 3.33 | 0.35 | -- | -- | |
| ½ | 1C | -180203 | 29424 | -389 | -0 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.58 | 3.33 | 0.35 | -- | -- | |
| ½ | 1D | -180390 | 29424 | -389 | -0 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.58 | 3.33 | 0.35 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -180073 | 29494 | -275 | -0 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.58 | 3.33 | 0.35 | -- | -- | |
| ½ | 1J | -180520 | 29494 | -275 | -0 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| ½ | 1K | -180073 | 29494 | -435 | -0 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.58 | 3.33 | 0.35 | -- | -- | |
| ½ | 1L | -180520 | 29494 | -435 | -0 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -42207 | 5753 | 567 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.16 | 0.29 | 0.00 | 0.03 | |
| 0 | 1B | -42233 | 5753 | 567 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.17 | 0.29 | 0.00 | 0.03 | |
| 0 | 1C | -42207 | 5753 | 558 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.16 | 0.29 | 0.00 | 0.03 | |
| 0 | 1D | -42233 | 5753 | 558 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.17 | 0.29 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -42189 | 5769 | 574 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.16 | 0.29 | 0.00 | 0.03 | |
| 0 | 1J | -42251 | 5769 | 574 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.17 | 0.29 | 0.00 | 0.03 | |
| 0 | 1K | -42189 | 5769 | 551 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.16 | 0.29 | 0.00 | 0.03 | |
| 0 | 1L | -42251 | 5769 | 551 | -0 | -- | -- | -- | -3.34 | 0.24 | 1.00 | 0.46 | 3.17 | 0.29 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 10 Descrizione: Maschio murario n. 10 su corso Valdocco
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -57010 | 12732 | 971 | 444 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.77 | 3.25 | 0.47 | -- | -- | |
| l | 1B | -57109 | 12732 | 971 | 436 | -- | -- | -- | -3.46 | 0.25 | 1.00 | 0.77 | 3.25 | 0.47 | -- | -- | |
| l | 1C | -57010 | 12732 | 959 | 444 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.77 | 3.25 | 0.47 | -- | -- | |
| l | 1D | -57109 | 12732 | 959 | 436 | -- | -- | -- | -3.46 | 0.25 | 1.00 | 0.77 | 3.25 | 0.47 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -56941 | 12750 | 979 | 449 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.77 | 3.24 | 0.48 | -- | -- | |
| l | 1J | -57179 | 12750 | 979 | 430 | -- | -- | -- | -3.46 | 0.25 | 1.00 | 0.77 | 3.25 | 0.47 | -- | -- | |
| l | 1K | -56941 | 12750 | 951 | 449 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.77 | 3.24 | 0.48 | -- | -- | |
| l | 1L | -57179 | 12750 | 951 | 430 | -- | -- | -- | -3.46 | 0.25 | 1.00 | 0.77 | 3.25 | 0.47 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -207278 | 36648 | 802 | 1508 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.55 | 3.01 | 0.37 | -- | -- | |
| ½ | 1B | -207456 | 36648 | 802 | 1505 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.55 | 3.01 | 0.37 | -- | -- | |
| ½ | 1C | -207278 | 36648 | 762 | 1508 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.55 | 3.01 | 0.37 | -- | -- | |
| ½ | 1D | -207456 | 36648 | 762 | 1505 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.55 | 3.01 | 0.37 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -207154 | 36774 | 830 | 1510 | -- | -- | -- | -3.13 | 0.22 | 1.00 | 0.56 | 3.01 | 0.37 | -- | -- | |
| ½ | 1J | -207580 | 36774 | 830 | 1503 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.56 | 3.01 | 0.37 | -- | -- | |
| ½ | 1K | -207154 | 36774 | 734 | 1510 | -- | -- | -- | -3.13 | 0.22 | 1.00 | 0.56 | 3.01 | 0.37 | -- | -- | |
| ½ | 1L | -207580 | 36774 | 734 | 1503 | -- | -- | -- | -3.14 | 0.22 | 1.00 | 0.56 | 3.01 | 0.37 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -52563 | 3760 | 554 | 168 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.05 | 0.15 | 0.01 | 0.02 | |
| 0 | 1B | -52595 | 3760 | 554 | 169 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.05 | 0.15 | 0.01 | 0.02 | |
| 0 | 1C | -52563 | 3760 | 550 | 168 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.05 | 0.15 | 0.01 | 0.02 | |
| 0 | 1D | -52595 | 3760 | 550 | 169 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.05 | 0.15 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -52542 | 3794 | 557 | 168 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.04 | 0.15 | 0.01 | 0.02 | |
| 0 | 1J | -52617 | 3794 | 557 | 169 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.05 | 0.15 | 0.01 | 0.02 | |
| 0 | 1K | -52542 | 3794 | 547 | 168 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.04 | 0.15 | 0.01 | 0.02 | |
| 0 | 1L | -52617 | 3794 | 547 | 169 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.23 | 3.05 | 0.15 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 11 Descrizione: Maschio murario n. 11 su corso Valdocco
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -37175 | 4265 | 556 | 0 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1B | -37201 | 4265 | 556 | 0 | -- | -- | -- | -3.05 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1C | -37175 | 4265 | 546 | 0 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1D | -37201 | 4265 | 546 | 0 | -- | -- | -- | -3.05 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -37156 | 4266 | 563 | 0 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1J | -37220 | 4266 | 563 | 0 | -- | -- | -- | -3.05 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1K | -37156 | 4266 | 539 | 0 | -- | -- | -- | -3.04 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1L | -37220 | 4266 | 539 | 0 | -- | -- | -- | -3.05 | 0.22 | 1.00 | 0.35 | 2.94 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -127050 | 6515 | -290 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1B | -127134 | 6515 | -290 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1C | -127050 | 6515 | -301 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1D | -127134 | 6515 | -301 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -126991 | 6574 | -283 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1J | -127193 | 6574 | -283 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1K | -126991 | 6574 | -308 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1L | -127193 | 6574 | -308 | 0 | -- | -- | -- | -2.60 | 0.19 | 1.00 | 0.13 | 2.61 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -34127 | 2717 | -1387 | 0 | -- | -- | -- | -2.79 | 0.20 | 1.00 | 0.22 | 2.76 | 0.16 | 0.00 | 0.08 | |
| 0 | 1B | -34165 | 2717 | -1387 | 0 | -- | -- | -- | -2.80 | 0.20 | 1.00 | 0.22 | 2.76 | 0.16 | 0.00 | 0.08 | |
| 0 | 1C | -34127 | 2717 | -1391 | 0 | -- | -- | -- | -2.79 | 0.20 | 1.00 | 0.22 | 2.76 | 0.16 | 0.00 | 0.08 | |
| 0 | 1D | -34165 | 2717 | -1391 | 0 | -- | -- | -- | -2.80 | 0.20 | 1.00 | 0.22 | 2.76 | 0.16 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -34101 | 2736 | -1383 | 0 | -- | -- | -- | -2.79 | 0.20 | 1.00 | 0.22 | 2.75 | 0.16 | 0.00 | 0.08 | |
| 0 | 1J | -34191 | 2736 | -1383 | 0 | -- | -- | -- | -2.80 | 0.20 | 1.00 | 0.22 | 2.76 | 0.16 | 0.00 | 0.08 | |
| 0 | 1K | -34101 | 2736 | -1394 | 0 | -- | -- | -- | -2.79 | 0.20 | 1.00 | 0.22 | 2.75 | 0.16 | 0.00 | 0.08 | |
| 0 | 1L | -34191 | 2736 | -1394 | 0 | -- | -- | -- | -2.80 | 0.20 | 1.00 | 0.22 | 2.76 | 0.16 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 12 Descrizione: Maschio murario n. 12 su corso Valdocco
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -32656 | 4095 | 1187 | 0 | -- | -- | -- | -3.33 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1B | -32689 | 4095 | 1187 | 0 | -- | -- | -- | -3.33 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1C | -32656 | 4095 | 1177 | 0 | -- | -- | -- | -3.33 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1D | -32689 | 4095 | 1177 | 0 | -- | -- | -- | -3.33 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -32633 | 4099 | 1193 | 0 | -- | -- | -- | -3.33 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1J | -32712 | 4099 | 1193 | 0 | -- | -- | -- | -3.34 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1K | -32633 | 4099 | 1170 | 0 | -- | -- | -- | -3.33 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1L | -32712 | 4099 | 1170 | 0 | -- | -- | -- | -3.34 | 0.11 | 1.00 | 0.42 | 3.49 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -122282 | 11404 | -70 | 33 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.24 | 2.96 | 0.17 | -- | -- | |
| ½ | 1B | -122372 | 11404 | -70 | 33 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.24 | 2.96 | 0.17 | -- | -- | |
| ½ | 1C | -122282 | 11404 | -85 | 33 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.24 | 2.96 | 0.17 | -- | -- | |
| ½ | 1D | -122372 | 11404 | -85 | 33 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.24 | 2.96 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -122219 | 11450 | -61 | 33 | -- | -- | -- | -2.62 | 0.09 | 1.00 | 0.25 | 2.96 | 0.17 | -- | -- | |
| ½ | 1J | -122435 | 11450 | -61 | 33 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.25 | 2.96 | 0.17 | -- | -- | |
| ½ | 1K | -122219 | 11450 | -95 | 33 | -- | -- | -- | -2.62 | 0.09 | 1.00 | 0.25 | 2.96 | 0.17 | -- | -- | |
| ½ | 1L | -122435 | 11450 | -95 | 33 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.25 | 2.96 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -26903 | 1658 | -1379 | 0 | -- | -- | -- | -2.74 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1B | -26930 | 1658 | -1379 | 0 | -- | -- | -- | -2.75 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1C | -26903 | 1658 | -1382 | 0 | -- | -- | -- | -2.74 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1D | -26930 | 1658 | -1382 | 0 | -- | -- | -- | -2.75 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26885 | 1670 | -1377 | 0 | -- | -- | -- | -2.74 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1J | -26948 | 1670 | -1377 | 0 | -- | -- | -- | -2.75 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1K | -26885 | 1670 | -1384 | 0 | -- | -- | -- | -2.74 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1L | -26948 | 1670 | -1384 | 0 | -- | -- | -- | -2.75 | 0.09 | 1.00 | 0.17 | 3.05 | 0.11 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 13 Descrizione: Maschio murario n. 13 su corso Valdocco
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -67830 | 10094 | 3332 | -1256 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.47 | 0.28 | -- | -- | |
| l | 1B | -67865 | 10094 | 3332 | -1259 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.47 | 0.28 | -- | -- | |
| l | 1C | -67830 | 10094 | 3330 | -1256 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.47 | 0.28 | -- | -- | |
| l | 1D | -67865 | 10094 | 3330 | -1259 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.47 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -67806 | 10098 | 3334 | -1254 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.46 | 0.28 | -- | -- | |
| l | 1J | -67889 | 10098 | 3334 | -1261 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.47 | 0.28 | -- | -- | |
| l | 1K | -67806 | 10098 | 3328 | -1254 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.46 | 0.28 | -- | -- | |
| l | 1L | -67889 | 10098 | 3328 | -1261 | -- -- | -- | -3.30 | 0.11 | 1.00 | 0.49 | 3.47 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -260160 | 12999 | 23713 | -589 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1B | -260259 | 12999 | 23713 | -589 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1C | -260160 | 12999 | 23710 | -589 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1D | -260259 | 12999 | 23710 | -589 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -260091 | 13013 | 23716 | -588 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1J | -260328 | 13013 | 23716 | -590 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1K | -260091 | 13013 | 23707 | -588 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1L | -260328 | 13013 | 23707 | -590 | -- -- | -- | -2.53 | 0.08 | 1.00 | 0.13 | 2.89 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -53498 | 571 | 927 | 19 | -- -- | -- | -2.60 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1B | -53525 | 571 | 927 | 20 | -- -- | -- | -2.60 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1C | -53498 | 571 | 926 | 19 | -- -- | -- | -2.60 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1D | -53525 | 571 | 926 | 20 | -- -- | -- | -2.60 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -53478 | 578 | 927 | 19 | -- -- | -- | -2.60 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1J | -53545 | 578 | 927 | 20 | -- -- | -- | -2.61 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1K | -53478 | 578 | 926 | 19 | -- -- | -- | -2.60 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1L | -53545 | 578 | 926 | 20 | -- -- | -- | -2.61 | 0.09 | 1.00 | 0.03 | 2.94 | 0.02 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 14 Descrizione: Maschio murario n. 14 su corso valdocco
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -62401 | 3876 | 3872 | -1682 | -- | -- | -- | -3.00 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1B | -62420 | 3876 | 3872 | -1683 | -- | -- | -- | -3.00 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1C | -62401 | 3876 | 3869 | -1682 | -- | -- | -- | -3.00 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1D | -62420 | 3876 | 3869 | -1683 | -- | -- | -- | -3.00 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -62388 | 3881 | 3873 | -1682 | -- | -- | -- | -3.00 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1J | -62433 | 3881 | 3873 | -1683 | -- | -- | -- | -3.01 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1K | -62388 | 3881 | 3867 | -1682 | -- | -- | -- | -3.00 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1L | -62433 | 3881 | 3867 | -1683 | -- | -- | -- | -3.01 | 0.10 | 1.00 | 0.19 | 3.24 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -273001 | 11893 | 28760 | -153 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1B | -273037 | 11893 | 28760 | -153 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1C | -273001 | 11893 | 28754 | -153 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1D | -273037 | 11893 | 28754 | -153 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -272976 | 11913 | 28764 | -152 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1J | -273062 | 11913 | 28764 | -153 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1K | -272976 | 11913 | 28750 | -152 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1L | -273062 | 11913 | 28750 | -153 | -- | -- | -- | -2.34 | 0.08 | 1.00 | 0.10 | 2.74 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -54645 | 3307 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1B | -54656 | 3307 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1C | -54645 | 3307 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1D | -54656 | 3307 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54638 | 3311 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1J | -54663 | 3311 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1K | -54638 | 3311 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1L | -54663 | 3311 | -1279 | -39 | -- | -- | -- | -2.63 | 0.09 | 1.00 | 0.16 | 2.96 | 0.11 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri portico**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 15 Descrizione: Maschio murario n. 15 su corso Valdocco
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -38752 | 5180 | 1234 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.51 | 0.26 | -- | -- | |
| l | 1B | -38759 | 5180 | 1234 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.51 | 0.26 | -- | -- | |
| l | 1C | -38752 | 5180 | 1232 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.51 | 0.26 | -- | -- | |
| l | 1D | -38759 | 5180 | 1232 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.51 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -38748 | 5182 | 1235 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.51 | 0.26 | -- | -- | |
| l | 1J | -38763 | 5182 | 1235 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.52 | 0.26 | -- | -- | |
| l | 1K | -38748 | 5182 | 1230 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.51 | 0.26 | -- | -- | |
| l | 1L | -38763 | 5182 | 1230 | 0 | -- | -- | -- | -3.37 | 0.11 | 1.00 | 0.45 | 3.52 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -122572 | 5863 | 148 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1B | -122579 | 5863 | 148 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1C | -122572 | 5863 | 144 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1D | -122579 | 5863 | 144 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -122567 | 5872 | 151 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1J | -122584 | 5872 | 151 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1K | -122567 | 5872 | 141 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1L | -122584 | 5872 | 141 | 0 | -- | -- | -- | -2.66 | 0.09 | 1.00 | 0.13 | 2.99 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -27955 | 891 | -1846 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1B | -27956 | 891 | -1846 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1C | -27955 | 891 | -1847 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1D | -27956 | 891 | -1847 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27954 | 893 | -1846 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1J | -27957 | 893 | -1846 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1K | -27954 | 893 | -1847 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1L | -27957 | 893 | -1847 | 0 | -- | -- | -- | -2.43 | 0.08 | 1.00 | 0.08 | 2.81 | 0.06 | 0.00 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 16 Descrizione: Maschio murario n. 16 su Via del Carmine
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -46956 | 5895 | 2366 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1B | -46964 | 5895 | 2366 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1C | -46956 | 5895 | 2363 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1D | -46964 | 5895 | 2363 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -46951 | 5895 | 2369 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1J | -46969 | 5895 | 2369 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1K | -46951 | 5895 | 2360 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1L | -46969 | 5895 | 2360 | 0 | -- | -- | -- | -3.52 | 0.25 | 1.00 | 0.44 | 3.30 | 0.27 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -144168 | 16474 | 1649 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1B | -144177 | 16474 | 1649 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1C | -144168 | 16474 | 1645 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1D | -144177 | 16474 | 1645 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -144161 | 16481 | 1653 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1J | -144184 | 16481 | 1653 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1K | -144161 | 16481 | 1642 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1L | -144184 | 16481 | 1642 | 0 | -- | -- | -- | -2.70 | 0.19 | 1.00 | 0.31 | 2.69 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -32843 | 3189 | -1084 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1B | -32845 | 3189 | -1084 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1C | -32843 | 3189 | -1084 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1D | -32845 | 3189 | -1084 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -32843 | 3191 | -1084 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1J | -32845 | 3191 | -1084 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1K | -32843 | 3191 | -1085 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1L | -32845 | 3191 | -1085 | 0 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.24 | 2.51 | 0.19 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 17 Descrizione: Maschio murario n. 17 su via del Carmine
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -63656 | 6849 | 5086 | -803 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.78 | 0.22 | -- | -- | |
| l | 1B | -63671 | 6849 | 5086 | -804 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.78 | 0.22 | -- | -- | |
| l | 1C | -63656 | 6849 | 5085 | -803 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.78 | 0.22 | -- | -- | |
| l | 1D | -63671 | 6849 | 5085 | -804 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.78 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -63646 | 6849 | 5087 | -802 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.78 | 0.22 | -- | -- | |
| l | 1J | -63682 | 6849 | 5087 | -804 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.79 | 0.22 | -- | -- | |
| l | 1K | -63646 | 6849 | 5084 | -802 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.78 | 0.22 | -- | -- | |
| l | 1L | -63682 | 6849 | 5084 | -804 | -- | -- | -- | -2.83 | 0.20 | 1.00 | 0.30 | 2.79 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -245416 | 20970 | 26012 | -678 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1B | -245427 | 20970 | 26012 | -679 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1C | -245416 | 20970 | 26009 | -678 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1D | -245427 | 20970 | 26009 | -679 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -245408 | 20975 | 26014 | -677 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1J | -245435 | 20975 | 26014 | -680 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1K | -245408 | 20975 | 26007 | -677 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1L | -245435 | 20975 | 26007 | -680 | -- | -- | -- | -2.38 | 0.17 | 1.00 | 0.20 | 2.44 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -58577 | 6464 | -1194 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1B | -58578 | 6464 | -1194 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1C | -58577 | 6464 | -1195 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1D | -58578 | 6464 | -1195 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -58577 | 6466 | -1194 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1J | -58578 | 6466 | -1194 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1K | -58577 | 6466 | -1195 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1L | -58578 | 6466 | -1195 | -250 | -- | -- | -- | -2.61 | 0.19 | 1.00 | 0.29 | 2.61 | 0.22 | 0.01 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 18 Descrizione: Maschio murario n. 18 su via del Carmine
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -72531 | 11907 | 5649 | -1929 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1B | -72547 | 11907 | 5649 | -1930 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1C | -72531 | 11907 | 5648 | -1929 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1D | -72547 | 11907 | 5648 | -1930 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -72520 | 11908 | 5649 | -1927 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1J | -72558 | 11908 | 5649 | -1931 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1K | -72520 | 11908 | 5648 | -1927 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1L | -72558 | 11908 | 5648 | -1931 | -- | -- | -- | -3.18 | 0.23 | 1.00 | 0.52 | 3.05 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -243033 | 18993 | 24895 | -589 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1B | -243046 | 18993 | 24895 | -591 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1C | -243033 | 18993 | 24894 | -589 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1D | -243046 | 18993 | 24894 | -591 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -243023 | 18996 | 24895 | -587 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1J | -243056 | 18996 | 24895 | -593 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1K | -243023 | 18996 | 24893 | -587 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1L | -243056 | 18996 | 24893 | -593 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.21 | 2.66 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -60734 | 5591 | 1100 | 247 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1B | -60734 | 5591 | 1100 | 247 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1C | -60734 | 5591 | 1100 | 247 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1D | -60734 | 5591 | 1100 | 247 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -60734 | 5593 | 1100 | 247 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1J | -60735 | 5593 | 1100 | 247 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1K | -60734 | 5593 | 1100 | 247 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1L | -60735 | 5593 | 1100 | 247 | -- | -- | -- | -2.67 | 0.19 | 1.00 | 0.25 | 2.66 | 0.18 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 19 Descrizione: Maschio murario n. 19 su Via Del Carmine
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -47011 | 4193 | 3559 | -281 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1B | -47022 | 4193 | 3559 | -282 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1C | -47011 | 4193 | 3557 | -281 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1D | -47022 | 4193 | 3557 | -282 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -47003 | 4193 | 3561 | -281 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1J | -47030 | 4193 | 3561 | -283 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1K | -47003 | 4193 | 3555 | -281 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1L | -47030 | 4193 | 3555 | -283 | -- | -- | -- | -2.48 | 0.18 | 1.00 | 0.22 | 2.52 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -196559 | 19043 | 6852 | 970 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1B | -196571 | 19043 | 6852 | 969 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1C | -196559 | 19043 | 6846 | 970 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1D | -196571 | 19043 | 6846 | 969 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -196550 | 19046 | 6855 | 970 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1J | -196580 | 19046 | 6855 | 968 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1K | -196550 | 19046 | 6843 | 970 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1L | -196580 | 19046 | 6843 | 968 | -- | -- | -- | -2.59 | 0.19 | 1.00 | 0.25 | 2.60 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -58161 | 452 | 1376 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1B | -58161 | 452 | 1376 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1C | -58161 | 452 | 1375 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1D | -58161 | 452 | 1375 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -58161 | 453 | 1376 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1J | -58162 | 453 | 1376 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1K | -58161 | 453 | 1375 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1L | -58162 | 453 | 1375 | -139 | -- | -- | -- | -3.07 | 0.22 | 1.00 | 0.02 | 2.96 | 0.02 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -58550 | 1981 | -507 | -1871 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1B | -58558 | 1981 | -507 | -1872 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1C | -58550 | 1981 | -509 | -1871 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1D | -58558 | 1981 | -509 | -1872 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -58545 | 1993 | -506 | -1871 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1J | -58564 | 1993 | -506 | -1872 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1K | -58545 | 1993 | -511 | -1871 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1L | -58564 | 1993 | -511 | -1872 | -- | -- | -- | -3.16 | 0.15 | 1.00 | 0.11 | 3.36 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -250173 | 15776 | 2100 | -9134 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1B | -250216 | 15776 | 2100 | -9139 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1C | -250173 | 15776 | 2087 | -9134 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1D | -250216 | 15776 | 2087 | -9139 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -250143 | 15833 | 2109 | -9130 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1J | -250246 | 15833 | 2109 | -9142 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1K | -250143 | 15833 | 2078 | -9130 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1L | -250246 | 15833 | 2078 | -9142 | -- | -- | -- | -3.38 | 0.16 | 1.00 | 0.21 | 3.52 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -70846 | 12060 | 198 | -265 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1B | -70863 | 12060 | 198 | -265 | -- | -- | -- | -3.83 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1C | -70846 | 12060 | 193 | -265 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1D | -70863 | 12060 | 193 | -265 | -- | -- | -- | -3.83 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -70833 | 12073 | 202 | -265 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1J | -70875 | 12073 | 202 | -265 | -- | -- | -- | -3.83 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1K | -70833 | 12073 | 190 | -265 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1L | -70875 | 12073 | 190 | -265 | -- | -- | -- | -3.83 | 0.18 | 1.00 | 0.65 | 3.86 | 0.34 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -22316 | 1433 | -593 | 0 | -- | -- | -- | -2.73 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1B | -22319 | 1433 | -593 | 0 | -- | -- | -- | -2.74 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1C | -22316 | 1433 | -593 | 0 | -- | -- | -- | -2.73 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1D | -22319 | 1433 | -593 | 0 | -- | -- | -- | -2.74 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -22314 | 1437 | -593 | 0 | -- | -- | -- | -2.73 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1J | -22321 | 1437 | -593 | 0 | -- | -- | -- | -2.74 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1K | -22314 | 1437 | -593 | 0 | -- | -- | -- | -2.73 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1L | -22321 | 1437 | -593 | 0 | -- | -- | -- | -2.74 | 0.13 | 1.00 | 0.18 | 3.04 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -96949 | 4636 | -6680 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1B | -96965 | 4636 | -6680 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1C | -96949 | 4636 | -6686 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1D | -96965 | 4636 | -6686 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -96938 | 4662 | -6676 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1J | -96976 | 4662 | -6676 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1K | -96938 | 4662 | -6689 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1L | -96976 | 4662 | -6689 | 0 | -- | -- | -- | -2.97 | 0.14 | 1.00 | 0.14 | 3.22 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -30986 | 139 | -1450 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1B | -30997 | 139 | -1450 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1C | -30986 | 139 | -1453 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1D | -30997 | 139 | -1453 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -30978 | 147 | -1449 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1J | -31005 | 147 | -1449 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1K | -30978 | 147 | -1455 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1L | -31005 | 147 | -1455 | 0 | -- | -- | -- | -3.80 | 0.18 | 1.00 | 0.02 | 3.84 | 0.01 | 0.00 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -45794 | 2803 | -1445 | -368 | -- | -- | -- | -2.40 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1B | -45816 | 2803 | -1445 | -364 | -- | -- | -- | -2.40 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1C | -45794 | 2803 | -1448 | -368 | -- | -- | -- | -2.40 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1D | -45816 | 2803 | -1448 | -364 | -- | -- | -- | -2.40 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -45778 | 2818 | -1443 | -371 | -- | -- | -- | -2.40 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1J | -45832 | 2818 | -1443 | -362 | -- | -- | -- | -2.41 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1K | -45778 | 2818 | -1450 | -371 | -- | -- | -- | -2.40 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1L | -45832 | 2818 | -1450 | -362 | -- | -- | -- | -2.41 | 0.11 | 1.00 | 0.15 | 2.79 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -459719 | 31236 | -13510 | 1606 | -- | -- | -- | -3.61 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1B | -460088 | 31236 | -13510 | 1632 | -- | -- | -- | -3.62 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1C | -459719 | 31236 | -13533 | 1606 | -- | -- | -- | -3.61 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1D | -460088 | 31236 | -13533 | 1632 | -- | -- | -- | -3.62 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -459461 | 31355 | -13495 | 1589 | -- | -- | -- | -3.61 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1J | -460346 | 31355 | -13495 | 1650 | -- | -- | -- | -3.62 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1K | -459461 | 31355 | -13548 | 1589 | -- | -- | -- | -3.61 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1L | -460346 | 31355 | -13548 | 1650 | -- | -- | -- | -3.62 | 0.17 | 1.00 | 0.25 | 3.70 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -103108 | 12680 | 297 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1B | -103146 | 12680 | 297 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1C | -103108 | 12680 | 295 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1D | -103146 | 12680 | 295 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -103081 | 12694 | 298 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1J | -103172 | 12694 | 298 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1K | -103081 | 12694 | 294 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1L | -103172 | 12694 | 294 | 12303 | -- | -- | -- | -5.41 | 0.26 | 1.00 | 0.67 | 5.05 | 0.26 | 0.23 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -58131 | 4474 | -334 | 224 | -- | -- | -- | -2.87 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1B | -58179 | 4474 | -334 | 226 | -- | -- | -- | -2.87 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1C | -58131 | 4474 | -342 | 224 | -- | -- | -- | -2.87 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1D | -58179 | 4474 | -342 | 226 | -- | -- | -- | -2.87 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -58097 | 4491 | -329 | 223 | -- | -- | -- | -2.86 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1J | -58212 | 4491 | -329 | 227 | -- | -- | -- | -2.87 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1K | -58097 | 4491 | -348 | 223 | -- | -- | -- | -2.86 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1L | -58212 | 4491 | -348 | 227 | -- | -- | -- | -2.87 | 0.14 | 1.00 | 0.22 | 3.14 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -328415 | 33607 | -2764 | -8925 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.41 | 4.03 | 0.21 | -- | -- | |
| ½ | 1B | -328609 | 33607 | -2764 | -8956 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.41 | 4.03 | 0.21 | -- | -- | |
| ½ | 1C | -328415 | 33607 | -2786 | -8925 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.41 | 4.03 | 0.21 | -- | -- | |
| ½ | 1D | -328609 | 33607 | -2786 | -8956 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.41 | 4.03 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -328279 | 33757 | -2749 | -8903 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.42 | 4.02 | 0.21 | -- | -- | |
| ½ | 1J | -328745 | 33757 | -2749 | -8977 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.42 | 4.03 | 0.21 | -- | -- | |
| ½ | 1K | -328279 | 33757 | -2802 | -8903 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.42 | 4.02 | 0.21 | -- | -- | |
| ½ | 1L | -328745 | 33757 | -2802 | -8977 | -- | -- | -- | -4.05 | 0.19 | 1.00 | 0.42 | 4.03 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -110240 | 26394 | -173 | -15967 | -- | -- | -- | -5.43 | 0.26 | 1.00 | 1.30 | 5.07 | 0.51 | 0.26 | 0.00 | |
| 0 | 1B | -110371 | 26394 | -173 | -16001 | -- | -- | -- | -5.44 | 0.26 | 1.00 | 1.30 | 5.07 | 0.51 | 0.26 | 0.00 | |
| 0 | 1C | -110240 | 26394 | -176 | -15967 | -- | -- | -- | -5.43 | 0.26 | 1.00 | 1.30 | 5.07 | 0.51 | 0.26 | 0.00 | |
| 0 | 1D | -110371 | 26394 | -176 | -16001 | -- | -- | -- | -5.44 | 0.26 | 1.00 | 1.30 | 5.07 | 0.51 | 0.26 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -110148 | 26439 | -172 | -15942 | -- | -- | -- | -5.43 | 0.26 | 1.00 | 1.30 | 5.06 | 0.51 | 0.26 | 0.00 | |
| 0 | 1J | -110462 | 26439 | -172 | -16025 | -- | -- | -- | -5.45 | 0.26 | 1.00 | 1.30 | 5.07 | 0.51 | 0.26 | 0.00 | |
| 0 | 1K | -110148 | 26439 | -178 | -15942 | -- | -- | -- | -5.43 | 0.26 | 1.00 | 1.30 | 5.06 | 0.51 | 0.26 | 0.00 | |
| 0 | 1L | -110462 | 26439 | -178 | -16025 | -- | -- | -- | -5.45 | 0.26 | 1.00 | 1.30 | 5.07 | 0.51 | 0.26 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -119964 | 21016 | 920 | -1148 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.59 | 3.53 | 0.34 | -- | -- | |
| l | 1B | -120073 | 21016 | 920 | -1196 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.59 | 3.53 | 0.34 | -- | -- | |
| l | 1C | -119964 | 21016 | 839 | -1148 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.59 | 3.53 | 0.34 | -- | -- | |
| l | 1D | -120073 | 21016 | 839 | -1196 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.59 | 3.53 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -119889 | 21071 | 977 | -1115 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.60 | 3.53 | 0.34 | -- | -- | |
| l | 1J | -120148 | 21071 | 977 | -1229 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.60 | 3.53 | 0.34 | -- | -- | |
| l | 1K | -119889 | 21071 | 782 | -1115 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.60 | 3.53 | 0.34 | -- | -- | |
| l | 1L | -120148 | 21071 | 782 | -1229 | -- | -- | -- | -3.39 | 0.16 | 1.00 | 0.60 | 3.53 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -504559 | 61674 | -1331 | 181 | -- | -- | -- | -3.56 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1B | -504918 | 61674 | -1331 | 138 | -- | -- | -- | -3.56 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1C | -504559 | 61674 | -1485 | 181 | -- | -- | -- | -3.56 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1D | -504918 | 61674 | -1485 | 138 | -- | -- | -- | -3.56 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -504309 | 61897 | -1224 | 211 | -- | -- | -- | -3.56 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1J | -505168 | 61897 | -1224 | 108 | -- | -- | -- | -3.57 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1K | -504309 | 61897 | -1592 | 211 | -- | -- | -- | -3.56 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1L | -505168 | 61897 | -1592 | 108 | -- | -- | -- | -3.57 | 0.17 | 1.00 | 0.44 | 3.66 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -135093 | 12753 | -707 | -1222 | -- | -- | -- | -3.81 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1B | -135178 | 12753 | -707 | -1225 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1C | -135093 | 12753 | -724 | -1222 | -- | -- | -- | -3.81 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1D | -135178 | 12753 | -724 | -1225 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -135033 | 12810 | -696 | -1220 | -- | -- | -- | -3.81 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1J | -135238 | 12810 | -696 | -1228 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1K | -135033 | 12810 | -736 | -1220 | -- | -- | -- | -3.81 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1L | -135238 | 12810 | -736 | -1228 | -- | -- | -- | -3.82 | 0.18 | 1.00 | 0.36 | 3.85 | 0.19 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -43434 | 9852 | -966 | -452 | -- | -- | -- | -2.69 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1B | -43455 | 9852 | -966 | -452 | -- | -- | -- | -2.70 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1C | -43434 | 9852 | -1066 | -452 | -- | -- | -- | -2.69 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1D | -43455 | 9852 | -1066 | -452 | -- | -- | -- | -2.70 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -43419 | 9858 | -896 | -452 | -- | -- | -- | -2.69 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1J | -43470 | 9858 | -896 | -452 | -- | -- | -- | -2.70 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1K | -43419 | 9858 | -1136 | -452 | -- | -- | -- | -2.69 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1L | -43470 | 9858 | -1136 | -452 | -- | -- | -- | -2.70 | 0.13 | 1.00 | 0.61 | 3.01 | 0.41 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -201726 | 32956 | -672 | -1363 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1B | -201830 | 32956 | -672 | -1357 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1C | -201726 | 32956 | -760 | -1363 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1D | -201830 | 32956 | -760 | -1357 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -201653 | 32979 | -610 | -1367 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1J | -201902 | 32979 | -610 | -1353 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1K | -201653 | 32979 | -822 | -1367 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1L | -201902 | 32979 | -822 | -1353 | -- | -- | -- | -3.13 | 0.15 | 1.00 | 0.51 | 3.34 | 0.31 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -58559 | 6744 | -649 | -216 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.42 | 3.71 | 0.23 | 0.01 | 0.02 | |
| 0 | 1B | -58588 | 6744 | -649 | -216 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.42 | 3.72 | 0.23 | 0.01 | 0.02 | |
| 0 | 1C | -58559 | 6744 | -654 | -216 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.42 | 3.71 | 0.23 | 0.01 | 0.02 | |
| 0 | 1D | -58588 | 6744 | -654 | -216 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.42 | 3.72 | 0.23 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -58538 | 6753 | -646 | -216 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.42 | 3.71 | 0.23 | 0.01 | 0.02 | |
| 0 | 1J | -58608 | 6753 | -646 | -216 | -- | -- | -- | -3.64 | 0.17 | 1.00 | 0.42 | 3.72 | 0.23 | 0.01 | 0.02 | |
| 0 | 1K | -58538 | 6753 | -658 | -216 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.42 | 3.71 | 0.23 | 0.01 | 0.02 | |
| 0 | 1L | -58608 | 6753 | -658 | -216 | -- | -- | -- | -3.64 | 0.17 | 1.00 | 0.42 | 3.72 | 0.23 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -128396 | 6331 | -2994 | -67 | -- | -- | -- | -2.77 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1B | -128425 | 6331 | -2994 | -68 | -- | -- | -- | -2.78 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1C | -128396 | 6331 | -3101 | -67 | -- | -- | -- | -2.77 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1D | -128425 | 6331 | -3101 | -68 | -- | -- | -- | -2.78 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -128375 | 6349 | -2919 | -67 | -- | -- | -- | -2.77 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1J | -128445 | 6349 | -2919 | -68 | -- | -- | -- | -2.78 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1K | -128375 | 6349 | -3176 | -67 | -- | -- | -- | -2.77 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1L | -128445 | 6349 | -3176 | -68 | -- | -- | -- | -2.78 | 0.13 | 1.00 | 0.14 | 3.07 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -563226 | 37805 | -4387 | -7973 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.12 | -- | -- | |
| ½ | 1B | -563294 | 37805 | -4387 | -7993 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.12 | -- | -- | |
| ½ | 1C | -563226 | 37805 | -4567 | -7973 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.12 | -- | -- | |
| ½ | 1D | -563294 | 37805 | -4567 | -7993 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -563179 | 37875 | -4262 | -7959 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.13 | -- | -- | |
| ½ | 1J | -563341 | 37875 | -4262 | -8008 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.13 | -- | -- | |
| ½ | 1K | -563179 | 37875 | -4692 | -7959 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.13 | -- | -- | |
| ½ | 1L | -563341 | 37875 | -4692 | -8008 | -- | -- | -- | -3.04 | 0.14 | 1.00 | 0.20 | 3.27 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -160301 | 9721 | -1069 | -1995 | -- | -- | -- | -3.46 | 0.16 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1B | -160334 | 9721 | -1069 | -2005 | -- | -- | -- | -3.46 | 0.16 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1C | -160301 | 9721 | -1083 | -1995 | -- | -- | -- | -3.46 | 0.16 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1D | -160334 | 9721 | -1083 | -2005 | -- | -- | -- | -3.46 | 0.16 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -160278 | 9734 | -1060 | -1987 | -- | -- | -- | -3.46 | 0.16 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1J | -160357 | 9734 | -1060 | -2012 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1K | -160278 | 9734 | -1093 | -1987 | -- | -- | -- | -3.46 | 0.16 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1L | -160357 | 9734 | -1093 | -2012 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.21 | 3.59 | 0.12 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -31901 | 4670 | -174 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1B | -31906 | 4670 | -174 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1C | -31901 | 4670 | -182 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1D | -31906 | 4670 | -182 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -31897 | 4675 | -168 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1J | -31910 | 4675 | -168 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1K | -31897 | 4675 | -188 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1L | -31910 | 4675 | -188 | 0 | -- | -- | -- | -2.67 | 0.13 | 1.00 | 0.39 | 2.99 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -138620 | 11693 | -1765 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1B | -138637 | 11693 | -1765 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1C | -138620 | 11693 | -1775 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1D | -138637 | 11693 | -1775 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -138608 | 11713 | -1757 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1J | -138648 | 11713 | -1757 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1K | -138608 | 11713 | -1783 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1L | -138648 | 11713 | -1783 | 0 | -- | -- | -- | -2.90 | 0.14 | 1.00 | 0.24 | 3.16 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -41536 | 2351 | -397 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1B | -41541 | 2351 | -397 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1C | -41536 | 2351 | -399 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1D | -41541 | 2351 | -399 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -41533 | 2356 | -396 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1J | -41544 | 2356 | -396 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1K | -41533 | 2356 | -401 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1L | -41544 | 2356 | -401 | 0 | -- | -- | -- | -3.47 | 0.17 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -117096 | 10062 | 624 | -578 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1B | -117108 | 10062 | 624 | -582 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1C | -117096 | 10062 | 593 | -578 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1D | -117108 | 10062 | 593 | -582 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -117088 | 10063 | 645 | -575 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1J | -117117 | 10063 | 645 | -586 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1K | -117088 | 10063 | 572 | -575 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1L | -117117 | 10063 | 572 | -586 | -- | -- | -- | -3.65 | 0.17 | 1.00 | 0.31 | 3.73 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -424100 | 21998 | 3341 | 6373 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1B | -424155 | 21998 | 3341 | 6373 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1C | -424100 | 21998 | 3283 | 6373 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1D | -424155 | 21998 | 3283 | 6373 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -424063 | 22009 | 3382 | 6373 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1J | -424192 | 22009 | 3382 | 6374 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1K | -424063 | 22009 | 3243 | 6373 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1L | -424192 | 22009 | 3243 | 6374 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.17 | 3.47 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -106405 | 4090 | -324 | -456 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1B | -106423 | 4090 | -324 | -454 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1C | -106405 | 4090 | -328 | -456 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1D | -106423 | 4090 | -328 | -454 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -106391 | 4092 | -322 | -458 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1J | -106437 | 4092 | -322 | -453 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1K | -106391 | 4092 | -330 | -458 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1L | -106437 | 4092 | -330 | -453 | -- | -- | -- | -3.32 | 0.16 | 1.00 | 0.13 | 3.48 | 0.07 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 94 Descrizione: Maschio murario n. 94 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14186 | 7270 | -30 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1B | -14189 | 7270 | -30 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1C | -14186 | 7270 | -34 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1D | -14189 | 7270 | -34 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14184 | 7274 | -27 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1J | -14191 | 7274 | -27 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1K | -14184 | 7274 | -36 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1L | -14191 | 7274 | -36 | -8625 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.42 | 1.28 | 0.66 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -228234 | 19645 | -327 | -39528 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1B | -228269 | 19645 | -327 | -39522 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1C | -228234 | 19645 | -350 | -39528 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1D | -228269 | 19645 | -350 | -39522 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -228210 | 19657 | -311 | -39532 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1J | -228293 | 19657 | -311 | -39518 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1K | -228210 | 19657 | -366 | -39532 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1L | -228293 | 19657 | -366 | -39518 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.20 | 2.37 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -60229 | 11038 | 77 | -167 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1B | -60237 | 11038 | 77 | -166 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1C | -60229 | 11038 | 74 | -167 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1D | -60237 | 11038 | 74 | -166 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -60224 | 11042 | 80 | -168 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1J | -60243 | 11042 | 80 | -165 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1K | -60224 | 11042 | 72 | -168 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1L | -60243 | 11042 | 72 | -165 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.64 | 3.28 | 0.39 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 95 Descrizione: Maschio murario n. 95 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1123 | 1438 | 0 | 82 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1B | -1126 | 1438 | 0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1C | -1123 | 1438 | -0 | 82 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1D | -1126 | 1438 | -0 | 83 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1121 | 1439 | 0 | 82 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1J | -1128 | 1439 | 0 | 84 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1K | -1121 | 1439 | -0 | 82 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1L | -1128 | 1439 | -0 | 84 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.07 | 0.70 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -168917 | 15532 | 16 | -6056 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1B | -168942 | 15532 | 16 | -6055 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1C | -168917 | 15532 | 6 | -6056 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1D | -168942 | 15532 | 6 | -6055 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -168900 | 15536 | 24 | -6057 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1J | -168960 | 15536 | 24 | -6054 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1K | -168900 | 15536 | -2 | -6057 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1L | -168960 | 15536 | -2 | -6054 | -- | -- | -- | -1.43 | 0.10 | 1.00 | 0.13 | 1.73 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48504 | 3229 | 1 | 576 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1B | -48511 | 3229 | 1 | 576 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1C | -48504 | 3229 | 1 | 576 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1D | -48511 | 3229 | 1 | 576 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48499 | 3229 | 2 | 576 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1J | -48516 | 3229 | 2 | 575 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1K | -48499 | 3229 | 1 | 576 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1L | -48516 | 3229 | 1 | 575 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.16 | 2.50 | 0.13 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 96 Descrizione: Maschio murario n. 96 pilastrone interrato
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -144352 | 48870 | -275 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1B | -144356 | 48870 | -275 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1C | -144352 | 48870 | -289 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1D | -144356 | 48870 | -289 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -144349 | 48871 | -265 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1J | -144359 | 48871 | -265 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1K | -144349 | 48871 | -299 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | |
| l | 1L | -144359 | 48871 | -299 | 1731 | -- | -- | -- | -5.98 | 0.20 | 1.00 | 2.02 | 3.38 | 1.20 | -- | -- | . |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -1100490 | 51176 | -2152 | 32194 | -- | -- | -- | -7.08 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1B | -1100568 | 51176 | -2152 | 32191 | -- | -- | -- | -7.08 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1C | -1100490 | 51176 | -2202 | 32194 | -- | -- | -- | -7.08 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1D | -1100568 | 51176 | -2202 | 32191 | -- | -- | -- | -7.08 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -1100435 | 51190 | -2118 | 32197 | -- | -- | -- | -7.08 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1J | -1100623 | 51190 | -2118 | 32189 | -- | -- | -- | -7.09 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1K | -1100435 | 51190 | -2237 | 32197 | -- | -- | -- | -7.08 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1L | -1100623 | 51190 | -2237 | 32189 | -- | -- | -- | -7.09 | 0.24 | 1.00 | 0.33 | 3.82 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -191347 | 26334 | -19 | 2959 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1B | -191382 | 26334 | -19 | 2958 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1C | -191347 | 26334 | -23 | 2959 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1D | -191382 | 26334 | -23 | 2958 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -191323 | 26335 | -15 | 2959 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1J | -191406 | 26335 | -15 | 2958 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1K | -191323 | 26335 | -27 | 2959 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1L | -191406 | 26335 | -27 | 2958 | -- | -- | -- | -7.93 | 0.26 | 1.00 | 1.09 | 4.16 | 0.52 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 97 Descrizione: Maschio murario n. 97 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -8786 | 6312 | 83 | 4883 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1B | -8792 | 6312 | 83 | 4886 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1C | -8786 | 6312 | 83 | 4883 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1D | -8792 | 6312 | 83 | 4886 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -8782 | 6316 | 83 | 4881 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1J | -8797 | 6316 | 83 | 4889 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1K | -8782 | 6316 | 83 | 4881 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1L | -8797 | 6316 | 83 | 4889 | -- | -- | -- | -0.59 | 0.04 | 1.00 | 0.42 | 1.10 | 0.77 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -284143 | 18977 | 1557 | 40492 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1B | -284189 | 18977 | 1557 | 40487 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1C | -284143 | 18977 | 1550 | 40492 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1D | -284189 | 18977 | 1550 | 40487 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -284112 | 18987 | 1563 | 40496 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1J | -284220 | 18987 | 1563 | 40483 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1K | -284112 | 18987 | 1545 | 40496 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1L | -284220 | 18987 | 1545 | 40483 | -- | -- | -- | -2.57 | 0.18 | 1.00 | 0.17 | 2.59 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -54493 | 6343 | -920 | 812 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1B | -54498 | 6343 | -920 | 811 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1C | -54493 | 6343 | -921 | 812 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1D | -54498 | 6343 | -921 | 811 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54490 | 6344 | -919 | 812 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1J | -54501 | 6344 | -919 | 811 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1K | -54490 | 6344 | -922 | 812 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1L | -54501 | 6344 | -922 | 811 | -- | -- | -- | -3.43 | 0.24 | 1.00 | 0.40 | 3.23 | 0.25 | 0.02 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 98 Descrizione: Maschio murario n. 98 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -16785 | 8123 | -150 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1B | -16789 | 8123 | -150 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1C | -16785 | 8123 | -157 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1D | -16789 | 8123 | -157 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16782 | 8128 | -145 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1J | -16792 | 8128 | -145 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1K | -16782 | 8128 | -161 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1L | -16792 | 8128 | -161 | -10364 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.47 | 1.38 | 0.67 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -202454 | 15634 | -1039 | -32346 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1B | -202489 | 15634 | -1039 | -32337 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1C | -202454 | 15634 | -1071 | -32346 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1D | -202489 | 15634 | -1071 | -32337 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -202430 | 15655 | -1016 | -32352 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1J | -202514 | 15655 | -1016 | -32330 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1K | -202430 | 15655 | -1094 | -32352 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1L | -202514 | 15655 | -1094 | -32330 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.18 | 2.41 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -58791 | 10755 | -233 | 60 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1B | -58811 | 10755 | -233 | 66 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1C | -58791 | 10755 | -239 | 60 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1D | -58811 | 10755 | -239 | 66 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -58777 | 10763 | -228 | 56 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1J | -58825 | 10763 | -228 | 70 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1K | -58777 | 10763 | -243 | 56 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1L | -58825 | 10763 | -243 | 70 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.62 | 3.19 | 0.39 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 99 Descrizione: Maschio murario n. 99 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1136 | 192 | 0 | 16 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1B | -1137 | 192 | 0 | 16 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1C | -1136 | 192 | -0 | 16 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1D | -1137 | 192 | -0 | 16 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1136 | 192 | 1 | 16 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1J | -1137 | 192 | 1 | 17 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1K | -1136 | 192 | -1 | 16 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1L | -1137 | 192 | -1 | 17 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.01 | 0.70 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -162544 | 14519 | -609 | -12850 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1B | -162597 | 14519 | -609 | -12851 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1C | -162544 | 14519 | -627 | -12850 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1D | -162597 | 14519 | -627 | -12851 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -162506 | 14525 | -597 | -12850 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1J | -162635 | 14525 | -597 | -12851 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1K | -162506 | 14525 | -640 | -12850 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1L | -162635 | 14525 | -640 | -12851 | -- | -- | -- | -1.36 | 0.10 | 1.00 | 0.12 | 1.68 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -47598 | 3512 | -9 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1B | -47617 | 3512 | -9 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1C | -47598 | 3512 | -10 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1D | -47617 | 3512 | -10 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47584 | 3513 | -8 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1J | -47630 | 3513 | -8 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1K | -47584 | 3513 | -10 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1L | -47630 | 3513 | -10 | 256 | -- | -- | -- | -2.39 | 0.17 | 1.00 | 0.18 | 2.45 | 0.14 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 100 Descrizione: Maschio murario n. 100 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -143513 | 50298 | 1020 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1B | -143517 | 50298 | 1020 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1C | -143513 | 50298 | 1001 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1D | -143517 | 50298 | 1001 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -143509 | 50300 | 1034 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1J | -143521 | 50300 | 1034 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1K | -143509 | 50300 | 988 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1L | -143521 | 50300 | 988 | -311 | -- | -- | -- | -5.14 | 0.17 | 1.00 | 1.80 | 3.04 | 1.18 | -- | -- | . |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -1110874 | 51718 | 5380 | 9673 | -- | -- | -- | -6.20 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1B | -1111122 | 51718 | 5380 | 9676 | -- | -- | -- | -6.21 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1C | -1110874 | 51718 | 5300 | 9673 | -- | -- | -- | -6.20 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1D | -1111122 | 51718 | 5300 | 9676 | -- | -- | -- | -6.21 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -1110700 | 51756 | 5436 | 9670 | -- | -- | -- | -6.20 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1J | -1111295 | 51756 | 5436 | 9679 | -- | -- | -- | -6.21 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1K | -1110700 | 51756 | 5244 | 9670 | -- | -- | -- | -6.20 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1L | -1111295 | 51756 | 5244 | 9679 | -- | -- | -- | -6.21 | 0.21 | 1.00 | 0.29 | 3.47 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -195916 | 28238 | 60 | 2161 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 1.01 | 3.79 | 0.53 | 0.01 | 0.00 | |
| 0 | 1B | -196020 | 28238 | 60 | 2163 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 1.01 | 3.80 | 0.53 | 0.01 | 0.00 | |
| 0 | 1C | -195916 | 28238 | 49 | 2161 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 1.01 | 3.79 | 0.53 | 0.01 | 0.00 | |
| 0 | 1D | -196020 | 28238 | 49 | 2163 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 1.01 | 3.80 | 0.53 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -195844 | 28243 | 67 | 2161 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 1.01 | 3.79 | 0.53 | 0.01 | 0.00 | |
| 0 | 1J | -196092 | 28243 | 67 | 2163 | -- | -- | -- | -7.02 | 0.23 | 1.00 | 1.01 | 3.80 | 0.53 | 0.01 | 0.00 | |
| 0 | 1K | -195844 | 28243 | 41 | 2161 | -- | -- | -- | -7.01 | 0.23 | 1.00 | 1.01 | 3.79 | 0.53 | 0.01 | 0.00 | |
| 0 | 1L | -196092 | 28243 | 41 | 2163 | -- | -- | -- | -7.02 | 0.23 | 1.00 | 1.01 | 3.80 | 0.53 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 101 Descrizione: Maschio murario n. 101 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14764 | 7822 | -138 | 7303 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1B | -14772 | 7822 | -138 | 7303 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1C | -14764 | 7822 | -145 | 7303 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1D | -14772 | 7822 | -145 | 7303 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14759 | 7832 | -134 | 7302 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1J | -14777 | 7832 | -134 | 7304 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1K | -14759 | 7832 | -149 | 7302 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1L | -14777 | 7832 | -149 | 7304 | -- | -- | -- | -0.84 | 0.06 | 1.00 | 0.45 | 1.29 | 0.69 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -235832 | 11515 | 640 | 17722 | -- | -- | -- | -2.65 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1B | -235958 | 11515 | 640 | 17701 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1C | -235832 | 11515 | 619 | 17722 | -- | -- | -- | -2.65 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1D | -235958 | 11515 | 619 | 17701 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -235744 | 11528 | 655 | 17737 | -- | -- | -- | -2.65 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1J | -236046 | 11528 | 655 | 17686 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1K | -235744 | 11528 | 605 | 17737 | -- | -- | -- | -2.65 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1L | -236046 | 11528 | 605 | 17686 | -- | -- | -- | -2.66 | 0.19 | 1.00 | 0.13 | 2.65 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -60594 | 5164 | 309 | -79 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.02 | |
| 0 | 1B | -60620 | 5164 | 309 | -82 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.02 | |
| 0 | 1C | -60594 | 5164 | 303 | -79 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.01 | |
| 0 | 1D | -60620 | 5164 | 303 | -82 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -60576 | 5165 | 312 | -78 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.02 | |
| 0 | 1J | -60638 | 5165 | 312 | -83 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.02 | |
| 0 | 1K | -60576 | 5165 | 300 | -78 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.01 | |
| 0 | 1L | -60638 | 5165 | 300 | -83 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.29 | 3.25 | 0.18 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 102 Descrizione: Maschio murario n. 102 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -4728 | 2685 | -25 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1B | -4731 | 2685 | -25 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1C | -4728 | 2685 | -28 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1D | -4731 | 2685 | -28 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4726 | 2687 | -22 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1J | -4733 | 2687 | -22 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1K | -4726 | 2687 | -30 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1L | -4733 | 2687 | -30 | 1929 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.21 | 0.94 | 0.45 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -161728 | 11226 | 283 | 3221 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1B | -161821 | 11226 | 283 | 3201 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1C | -161728 | 11226 | 268 | 3221 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1D | -161821 | 11226 | 268 | 3201 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -161663 | 11253 | 293 | 3234 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1J | -161887 | 11253 | 293 | 3187 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1K | -161663 | 11253 | 258 | 3234 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1L | -161887 | 11253 | 258 | 3187 | -- | -- | -- | -2.58 | 0.18 | 1.00 | 0.18 | 2.59 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48807 | 4832 | -86 | -406 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.38 | 3.53 | 0.21 | 0.01 | 0.01 | |
| 0 | 1B | -48854 | 4832 | -86 | -417 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.38 | 3.53 | 0.21 | 0.01 | 0.01 | |
| 0 | 1C | -48807 | 4832 | -90 | -406 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.38 | 3.53 | 0.21 | 0.01 | 0.01 | |
| 0 | 1D | -48854 | 4832 | -90 | -417 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.38 | 3.53 | 0.21 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48774 | 4843 | -83 | -398 | -- | -- | -- | -3.82 | 0.27 | 1.00 | 0.38 | 3.53 | 0.22 | 0.01 | 0.01 | |
| 0 | 1J | -48887 | 4843 | -83 | -424 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.38 | 3.53 | 0.21 | 0.01 | 0.01 | |
| 0 | 1K | -48774 | 4843 | -93 | -398 | -- | -- | -- | -3.82 | 0.27 | 1.00 | 0.38 | 3.53 | 0.22 | 0.01 | 0.01 | |
| 0 | 1L | -48887 | 4843 | -93 | -424 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.38 | 3.53 | 0.21 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 103 Descrizione: Maschio murario n. 103 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -129424 | 47964 | 1938 | -248 | -- | -- | -- | -5.68 | 0.19 | 1.00 | 2.11 | 3.26 | 1.29 | -- | -- | . |
| l | 1B | -129477 | 47964 | 1938 | -247 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 2.11 | 3.26 | 1.29 | -- | -- | . |
| l | 1C | -129424 | 47964 | 1912 | -248 | -- | -- | -- | -5.68 | 0.19 | 1.00 | 2.11 | 3.26 | 1.29 | -- | -- | |
| l | 1D | -129477 | 47964 | 1912 | -247 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 2.11 | 3.26 | 1.29 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -129387 | 47969 | 1955 | -248 | -- | -- | -- | -5.68 | 0.19 | 1.00 | 2.11 | 3.26 | 1.29 | -- | -- | |
| l | 1J | -129514 | 47969 | 1955 | -247 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 2.11 | 3.27 | 1.29 | -- | -- | |
| l | 1K | -129387 | 47969 | 1895 | -248 | -- | -- | -- | -5.68 | 0.19 | 1.00 | 2.11 | 3.26 | 1.29 | -- | -- | |
| l | 1L | -129514 | 47969 | 1895 | -247 | -- | -- | -- | -5.69 | 0.19 | 1.00 | 2.11 | 3.27 | 1.29 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -994563 | 49060 | 6853 | 14216 | -- | -- | -- | -6.82 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1B | -995213 | 49060 | 6853 | 14265 | -- | -- | -- | -6.82 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1C | -994563 | 49060 | 6706 | 14216 | -- | -- | -- | -6.82 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1D | -995213 | 49060 | 6706 | 14265 | -- | -- | -- | -6.82 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -994108 | 49159 | 6955 | 14182 | -- | -- | -- | -6.81 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1J | -995667 | 49159 | 6955 | 14299 | -- | -- | -- | -6.83 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1K | -994108 | 49159 | 6604 | 14182 | -- | -- | -- | -6.81 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1L | -995667 | 49159 | 6604 | 14299 | -- | -- | -- | -6.83 | 0.23 | 1.00 | 0.34 | 3.72 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -174941 | 23683 | 86 | 2290 | -- | -- | -- | -7.68 | 0.26 | 1.00 | 1.04 | 4.06 | 0.51 | 0.02 | 0.00 | |
| 0 | 1B | -175210 | 23683 | 86 | 2305 | -- | -- | -- | -7.69 | 0.26 | 1.00 | 1.04 | 4.07 | 0.51 | 0.02 | 0.00 | |
| 0 | 1C | -174941 | 23683 | 57 | 2290 | -- | -- | -- | -7.68 | 0.26 | 1.00 | 1.04 | 4.06 | 0.51 | 0.02 | 0.00 | |
| 0 | 1D | -175210 | 23683 | 57 | 2305 | -- | -- | -- | -7.69 | 0.26 | 1.00 | 1.04 | 4.07 | 0.51 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -174754 | 23697 | 106 | 2279 | -- | -- | -- | -7.67 | 0.26 | 1.00 | 1.04 | 4.06 | 0.51 | 0.02 | 0.00 | |
| 0 | 1J | -175398 | 23697 | 106 | 2316 | -- | -- | -- | -7.70 | 0.26 | 1.00 | 1.04 | 4.07 | 0.51 | 0.02 | 0.00 | |
| 0 | 1K | -174754 | 23697 | 36 | 2279 | -- | -- | -- | -7.67 | 0.26 | 1.00 | 1.04 | 4.06 | 0.51 | 0.02 | 0.00 | |
| 0 | 1L | -175398 | 23697 | 36 | 2316 | -- | -- | -- | -7.70 | 0.26 | 1.00 | 1.04 | 4.07 | 0.51 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 104 Descrizione: Maschio murario n. 104 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1454 | 1156 | 0 | 66 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1B | -1465 | 1156 | 0 | 69 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1C | -1454 | 1156 | -1 | 66 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1D | -1465 | 1156 | -1 | 69 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1446 | 1160 | 1 | 64 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1J | -1473 | 1160 | 1 | 71 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1K | -1446 | 1160 | -1 | 64 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1L | -1473 | 1160 | -1 | 71 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.05 | 0.70 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -179963 | 15681 | 4378 | -6831 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1B | -180128 | 15681 | 4378 | -6826 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1C | -179963 | 15681 | 4341 | -6831 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1D | -180128 | 15681 | 4341 | -6826 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -179848 | 15705 | 4405 | -6835 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1J | -180243 | 15705 | 4405 | -6822 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1K | -179848 | 15705 | 4314 | -6835 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1L | -180243 | 15705 | 4314 | -6822 | -- | -- | -- | -1.17 | 0.08 | 1.00 | 0.10 | 1.54 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -52979 | 3346 | 61 | 718 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1B | -53036 | 3346 | 61 | 716 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1C | -52979 | 3346 | 60 | 718 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1D | -53036 | 3346 | 60 | 716 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -52939 | 3351 | 62 | 720 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1J | -53076 | 3351 | 62 | 715 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1K | -52939 | 3351 | 59 | 720 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1L | -53076 | 3351 | 59 | 715 | -- | -- | -- | -2.07 | 0.15 | 1.00 | 0.13 | 2.21 | 0.12 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 105 Descrizione: Maschio murario n. 105 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -17187 | 8659 | -194 | -10105 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1B | -17195 | 8659 | -194 | -10106 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1C | -17187 | 8659 | -209 | -10105 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1D | -17195 | 8659 | -209 | -10106 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -17181 | 8668 | -183 | -10105 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1J | -17201 | 8668 | -183 | -10107 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1K | -17181 | 8668 | -220 | -10105 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1L | -17201 | 8668 | -220 | -10107 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.39 | 1.24 | 0.63 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -243891 | 21363 | -1547 | -39375 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1B | -244052 | 21363 | -1547 | -39341 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1C | -243891 | 21363 | -1596 | -39375 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1D | -244052 | 21363 | -1596 | -39341 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -243779 | 21398 | -1513 | -39399 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1J | -244164 | 21398 | -1513 | -39317 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1K | -243779 | 21398 | -1630 | -39399 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1L | -244164 | 21398 | -1630 | -39317 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.19 | 2.30 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -72286 | 12912 | -237 | -305 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1B | -72343 | 12912 | -237 | -290 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1C | -72286 | 12912 | -246 | -305 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1D | -72343 | 12912 | -246 | -290 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -72247 | 12922 | -230 | -315 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1J | -72382 | 12922 | -230 | -280 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1K | -72247 | 12922 | -252 | -315 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1L | -72382 | 12922 | -252 | -280 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.58 | 3.08 | 0.37 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 106 Descrizione: Maschio murario n. 106 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -20078 | 9444 | -228 | -11677 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1B | -20103 | 9444 | -228 | -11676 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1C | -20078 | 9444 | -235 | -11677 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1D | -20103 | 9444 | -235 | -11676 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -20060 | 9477 | -223 | -11677 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1J | -20120 | 9477 | -223 | -11675 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1K | -20060 | 9477 | -240 | -11677 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1L | -20120 | 9477 | -240 | -11675 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.39 | 1.29 | 0.61 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -239100 | 19159 | -2283 | -40324 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1B | -239459 | 19159 | -2283 | -40235 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1C | -239100 | 19159 | -2335 | -40324 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1D | -239459 | 19159 | -2335 | -40235 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -238849 | 19195 | -2247 | -40385 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1J | -239710 | 19195 | -2247 | -40174 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1K | -238849 | 19195 | -2371 | -40385 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1L | -239710 | 19195 | -2371 | -40174 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.16 | 2.16 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -71329 | 12815 | -1375 | -525 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.89 | 0.37 | 0.01 | 0.04 | |
| 0 | 1B | -71403 | 12815 | -1375 | -507 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.89 | 0.37 | 0.01 | 0.04 | |
| 0 | 1C | -71329 | 12815 | -1379 | -525 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.89 | 0.37 | 0.01 | 0.04 | |
| 0 | 1D | -71403 | 12815 | -1379 | -507 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.89 | 0.37 | 0.01 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -71277 | 12817 | -1373 | -537 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.88 | 0.37 | 0.01 | 0.04 | |
| 0 | 1J | -71455 | 12817 | -1373 | -494 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.89 | 0.37 | 0.01 | 0.04 | |
| 0 | 1K | -71277 | 12817 | -1382 | -537 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.88 | 0.37 | 0.01 | 0.04 | |
| 0 | 1L | -71455 | 12817 | -1382 | -494 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.53 | 2.89 | 0.37 | 0.01 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 107 Descrizione: Maschio murario n. 107 pilastrone interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1563 | 941 | 2 | 55 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1B | -1571 | 941 | 2 | 57 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1C | -1563 | 941 | -2 | 55 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1D | -1571 | 941 | -2 | 57 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1557 | 944 | 4 | 53 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1J | -1578 | 944 | 4 | 58 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1K | -1557 | 944 | -4 | 53 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1L | -1578 | 944 | -4 | 58 | -- | -- | -- | -0.06 | 0.00 | 1.00 | 0.03 | 0.70 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -148903 | 15300 | 11979 | -6063 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1B | -149151 | 15300 | 11979 | -6074 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1C | -148903 | 15300 | 11943 | -6063 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1D | -149151 | 15300 | 11943 | -6074 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -148730 | 15388 | 12004 | -6055 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1J | -149325 | 15388 | 12004 | -6082 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1K | -148730 | 15388 | 11918 | -6055 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1L | -149325 | 15388 | 11918 | -6082 | -- | -- | -- | -0.90 | 0.06 | 1.00 | 0.09 | 1.34 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -45748 | 3273 | 171 | 926 | -- | -- | -- | -1.66 | 0.12 | 1.00 | 0.12 | 1.91 | 0.12 | 0.02 | 0.01 | |
| 0 | 1B | -45861 | 3273 | 171 | 923 | -- | -- | -- | -1.67 | 0.12 | 1.00 | 0.12 | 1.91 | 0.12 | 0.02 | 0.01 | |
| 0 | 1C | -45748 | 3273 | 170 | 926 | -- | -- | -- | -1.66 | 0.12 | 1.00 | 0.12 | 1.91 | 0.12 | 0.02 | 0.01 | |
| 0 | 1D | -45861 | 3273 | 170 | 923 | -- | -- | -- | -1.67 | 0.12 | 1.00 | 0.12 | 1.91 | 0.12 | 0.02 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -45669 | 3285 | 171 | 928 | -- | -- | -- | -1.66 | 0.12 | 1.00 | 0.12 | 1.91 | 0.13 | 0.02 | 0.01 | |
| 0 | 1J | -45939 | 3285 | 171 | 920 | -- | -- | -- | -1.67 | 0.12 | 1.00 | 0.12 | 1.91 | 0.12 | 0.02 | 0.01 | |
| 0 | 1K | -45669 | 3285 | 170 | 928 | -- | -- | -- | -1.66 | 0.12 | 1.00 | 0.12 | 1.91 | 0.13 | 0.02 | 0.01 | |
| 0 | 1L | -45939 | 3285 | 170 | 920 | -- | -- | -- | -1.67 | 0.12 | 1.00 | 0.12 | 1.91 | 0.12 | 0.02 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Muri in cantina placcati ca**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.40** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 108 Descrizione: Maschio murario n. 108 pilastrone interrato
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -114676 | 41446 | 5049 | -760 | -- -- | -- | -4.26 | 0.14 | 1.00 | 1.54 | 2.69 | 1.14 | -- | -- | |
| l | 1B | -114964 | 41446 | 5049 | -758 | -- -- | -- | -4.27 | 0.14 | 1.00 | 1.54 | 2.70 | 1.14 | -- | -- | |
| l | 1C | -114676 | 41446 | 4936 | -760 | -- -- | -- | -4.26 | 0.14 | 1.00 | 1.54 | 2.69 | 1.14 | -- | -- | |
| l | 1D | -114964 | 41446 | 4936 | -758 | -- -- | -- | -4.27 | 0.14 | 1.00 | 1.54 | 2.70 | 1.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -114474 | 41453 | 5129 | -763 | -- -- | -- | -4.25 | 0.14 | 1.00 | 1.54 | 2.69 | 1.14 | -- | -- | |
| l | 1J | -115166 | 41453 | 5129 | -755 | -- -- | -- | -4.28 | 0.14 | 1.00 | 1.54 | 2.70 | 1.14 | -- | -- | |
| l | 1K | -114474 | 41453 | 4856 | -763 | -- -- | -- | -4.25 | 0.14 | 1.00 | 1.54 | 2.69 | 1.14 | -- | -- | . |
| l | 1L | -115166 | 41453 | 4856 | -755 | -- -- | -- | -4.28 | 0.14 | 1.00 | 1.54 | 2.70 | 1.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -897879 | 44180 | 19422 | 15756 | -- -- | -- | -5.21 | 0.17 | 1.00 | 0.26 | 3.07 | 0.17 | -- | -- | |
| ½ | 1B | -900744 | 44180 | 19422 | 16192 | -- -- | -- | -5.22 | 0.17 | 1.00 | 0.26 | 3.08 | 0.17 | -- | -- | |
| ½ | 1C | -897879 | 44180 | 18575 | 15756 | -- -- | -- | -5.21 | 0.17 | 1.00 | 0.26 | 3.07 | 0.17 | -- | -- | |
| ½ | 1D | -900744 | 44180 | 18575 | 16192 | -- -- | -- | -5.22 | 0.17 | 1.00 | 0.26 | 3.08 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -895879 | 44621 | 20013 | 15452 | -- -- | -- | -5.20 | 0.17 | 1.00 | 0.26 | 3.07 | 0.17 | -- | -- | |
| ½ | 1J | -902743 | 44621 | 20013 | 16497 | -- -- | -- | -5.24 | 0.17 | 1.00 | 0.26 | 3.08 | 0.17 | -- | -- | |
| ½ | 1K | -895879 | 44621 | 17984 | 15452 | -- -- | -- | -5.20 | 0.17 | 1.00 | 0.26 | 3.07 | 0.17 | -- | -- | |
| ½ | 1L | -902743 | 44621 | 17984 | 16497 | -- -- | -- | -5.24 | 0.17 | 1.00 | 0.26 | 3.08 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -160902 | 23011 | 276 | 2784 | -- -- | -- | -5.98 | 0.20 | 1.00 | 0.86 | 3.38 | 0.51 | 0.02 | 0.00 | |
| 0 | 1B | -161713 | 23011 | 276 | 2856 | -- -- | -- | -6.01 | 0.20 | 1.00 | 0.86 | 3.39 | 0.50 | 0.02 | 0.00 | |
| 0 | 1C | -160902 | 23011 | 145 | 2784 | -- -- | -- | -5.98 | 0.20 | 1.00 | 0.86 | 3.38 | 0.51 | 0.02 | 0.00 | |
| 0 | 1D | -161713 | 23011 | 145 | 2856 | -- -- | -- | -6.01 | 0.20 | 1.00 | 0.86 | 3.39 | 0.50 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -160336 | 23056 | 367 | 2734 | -- -- | -- | -5.96 | 0.20 | 1.00 | 0.86 | 3.37 | 0.51 | 0.02 | 0.00 | |
| 0 | 1J | -162279 | 23056 | 367 | 2906 | -- -- | -- | -6.03 | 0.20 | 1.00 | 0.86 | 3.40 | 0.50 | 0.02 | 0.00 | |
| 0 | 1K | -160336 | 23056 | 54 | 2734 | -- -- | -- | -5.96 | 0.20 | 1.00 | 0.86 | 3.37 | 0.51 | 0.02 | 0.00 | |
| 0 | 1L | -162279 | 23056 | 54 | 2906 | -- -- | -- | -6.03 | 0.20 | 1.00 | 0.86 | 3.40 | 0.50 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 109 Descrizione: Maschio murario n. 109 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12147 | 6608 | 33 | 5581 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1B | -12166 | 6608 | 33 | 5582 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1C | -12147 | 6608 | 24 | 5581 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1D | -12166 | 6608 | 24 | 5582 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12134 | 6631 | 39 | 5580 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1J | -12178 | 6631 | 39 | 5583 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1K | -12134 | 6631 | 18 | 5580 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1L | -12178 | 6631 | 18 | 5583 | -- | -- | -- | -0.73 | 0.05 | 1.00 | 0.40 | 1.21 | 0.66 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -202931 | 12366 | -119 | 7730 | -- | -- | -- | -2.45 | 0.18 | 1.00 | 0.15 | 2.50 | 0.12 | -- | -- | |
| ½ | 1B | -203251 | 12366 | -119 | 7668 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.15 | 2.50 | 0.12 | -- | -- | |
| ½ | 1C | -202931 | 12366 | -139 | 7730 | -- | -- | -- | -2.45 | 0.18 | 1.00 | 0.15 | 2.50 | 0.12 | -- | -- | |
| ½ | 1D | -203251 | 12366 | -139 | 7668 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.15 | 2.50 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -202708 | 12414 | -105 | 7773 | -- | -- | -- | -2.45 | 0.18 | 1.00 | 0.15 | 2.50 | 0.12 | -- | -- | |
| ½ | 1J | -203474 | 12414 | -105 | 7625 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.15 | 2.51 | 0.12 | -- | -- | |
| ½ | 1K | -202708 | 12414 | -152 | 7773 | -- | -- | -- | -2.45 | 0.18 | 1.00 | 0.15 | 2.50 | 0.12 | -- | -- | |
| ½ | 1L | -203474 | 12414 | -152 | 7625 | -- | -- | -- | -2.46 | 0.18 | 1.00 | 0.15 | 2.51 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -54546 | 1285 | 402 | 1444 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.08 | 3.12 | 0.05 | 0.04 | 0.02 | |
| 0 | 1B | -54633 | 1285 | 402 | 1424 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.08 | 3.12 | 0.05 | 0.04 | 0.02 | |
| 0 | 1C | -54546 | 1285 | 397 | 1444 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.08 | 3.12 | 0.05 | 0.04 | 0.02 | |
| 0 | 1D | -54633 | 1285 | 397 | 1424 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.08 | 3.12 | 0.05 | 0.04 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54485 | 1293 | 405 | 1457 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.08 | 3.12 | 0.05 | 0.04 | 0.02 | |
| 0 | 1J | -54694 | 1293 | 405 | 1411 | -- | -- | -- | -3.29 | 0.23 | 1.00 | 0.08 | 3.13 | 0.05 | 0.04 | 0.02 | |
| 0 | 1K | -54485 | 1293 | 393 | 1457 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.08 | 3.12 | 0.05 | 0.04 | 0.02 | |
| 0 | 1L | -54694 | 1293 | 393 | 1411 | -- | -- | -- | -3.29 | 0.23 | 1.00 | 0.08 | 3.13 | 0.05 | 0.04 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 110 Descrizione: Maschio murario n. 110 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -15474 | 9070 | -40 | 6751 | -- | -- | -- | -0.67 | 0.05 | 1.00 | 0.40 | 1.17 | 0.68 | -- | -- | |
| l | 1B | -15560 | 9070 | -40 | 6763 | -- | -- | -- | -0.68 | 0.05 | 1.00 | 0.40 | 1.17 | 0.68 | -- | -- | |
| l | 1C | -15474 | 9070 | -64 | 6751 | -- | -- | -- | -0.67 | 0.05 | 1.00 | 0.40 | 1.17 | 0.68 | -- | -- | |
| l | 1D | -15560 | 9070 | -64 | 6763 | -- | -- | -- | -0.68 | 0.05 | 1.00 | 0.40 | 1.17 | 0.68 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15415 | 9157 | -24 | 6742 | -- | -- | -- | -0.67 | 0.05 | 1.00 | 0.40 | 1.16 | 0.69 | -- | -- | |
| l | 1J | -15619 | 9157 | -24 | 6772 | -- | -- | -- | -0.68 | 0.05 | 1.00 | 0.40 | 1.17 | 0.68 | -- | -- | |
| l | 1K | -15415 | 9157 | -81 | 6742 | -- | -- | -- | -0.67 | 0.05 | 1.00 | 0.40 | 1.16 | 0.69 | -- | -- | |
| l | 1L | -15619 | 9157 | -81 | 6772 | -- | -- | -- | -0.68 | 0.05 | 1.00 | 0.40 | 1.17 | 0.68 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -267114 | 16279 | -1071 | 12302 | -- | -- | -- | -2.35 | 0.17 | 1.00 | 0.14 | 2.42 | 0.12 | -- | -- | |
| ½ | 1B | -268132 | 16279 | -1071 | 12023 | -- | -- | -- | -2.36 | 0.17 | 1.00 | 0.14 | 2.43 | 0.12 | -- | -- | |
| ½ | 1C | -267114 | 16279 | -1297 | 12302 | -- | -- | -- | -2.35 | 0.17 | 1.00 | 0.14 | 2.42 | 0.12 | -- | -- | |
| ½ | 1D | -268132 | 16279 | -1297 | 12023 | -- | -- | -- | -2.36 | 0.17 | 1.00 | 0.14 | 2.43 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -266403 | 16456 | -913 | 12497 | -- | -- | -- | -2.34 | 0.17 | 1.00 | 0.14 | 2.42 | 0.12 | -- | -- | |
| ½ | 1J | -268842 | 16456 | -913 | 11829 | -- | -- | -- | -2.36 | 0.17 | 1.00 | 0.14 | 2.43 | 0.12 | -- | -- | |
| ½ | 1K | -266403 | 16456 | -1455 | 12497 | -- | -- | -- | -2.34 | 0.17 | 1.00 | 0.14 | 2.42 | 0.12 | -- | -- | |
| ½ | 1L | -268842 | 16456 | -1455 | 11829 | -- | -- | -- | -2.36 | 0.17 | 1.00 | 0.14 | 2.43 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -74859 | 3137 | 672 | 2119 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.14 | 3.11 | 0.09 | 0.04 | 0.02 | |
| 0 | 1B | -74977 | 3137 | 672 | 2095 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.14 | 3.11 | 0.09 | 0.04 | 0.02 | |
| 0 | 1C | -74859 | 3137 | 662 | 2119 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.14 | 3.11 | 0.09 | 0.04 | 0.02 | |
| 0 | 1D | -74977 | 3137 | 662 | 2095 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.14 | 3.11 | 0.09 | 0.04 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -74776 | 3156 | 679 | 2136 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.14 | 3.11 | 0.09 | 0.04 | 0.02 | |
| 0 | 1J | -75059 | 3156 | 679 | 2078 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.14 | 3.12 | 0.09 | 0.04 | 0.02 | |
| 0 | 1K | -74776 | 3156 | 655 | 2136 | -- | -- | -- | -3.26 | 0.23 | 1.00 | 0.14 | 3.11 | 0.09 | 0.04 | 0.02 | |
| 0 | 1L | -75059 | 3156 | 655 | 2078 | -- | -- | -- | -3.27 | 0.23 | 1.00 | 0.14 | 3.12 | 0.09 | 0.04 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 111 Descrizione: Maschio murario n. 111 pilastrone interrato
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -85246 | 27247 | 910 | -3979 | -- | -- | -- | -2.86 | 0.14 | 1.00 | 0.91 | 3.13 | 0.58 | -- | -- | |
| l | 1B | -98689 | 27247 | 910 | -5754 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.91 | 3.47 | 0.53 | -- | -- | |
| l | 1C | -85246 | 27247 | -2268 | -3979 | -- | -- | -- | -2.86 | 0.14 | 1.00 | 0.91 | 3.13 | 0.58 | -- | -- | |
| l | 1D | -98689 | 27247 | -2268 | -5754 | -- | -- | -- | -3.31 | 0.16 | 1.00 | 0.91 | 3.47 | 0.53 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -75866 | 29127 | 3125 | -2740 | -- | -- | -- | -2.55 | 0.12 | 1.00 | 0.98 | 2.90 | 0.67 | -- | -- | |
| l | 1J | -108069 | 29127 | 3125 | -6993 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.98 | 3.71 | 0.53 | -- | -- | |
| l | 1K | -75866 | 29127 | -4483 | -2740 | -- | -- | -- | -2.55 | 0.12 | 1.00 | 0.98 | 2.90 | 0.67 | -- | -- | |
| l | 1L | -108069 | 29127 | -4483 | -6993 | -- | -- | -- | -3.63 | 0.17 | 1.00 | 0.98 | 3.71 | 0.53 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -745848 | 40192 | -1901 | 895 | -- | -- | -- | -3.91 | 0.19 | 1.00 | 0.21 | 3.92 | 0.11 | -- | -- | |
| ½ | 1B | -779436 | 40192 | -1901 | 2295 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.21 | 4.05 | 0.10 | -- | -- | |
| ½ | 1C | -745848 | 40192 | -12843 | 895 | -- | -- | -- | -3.91 | 0.19 | 1.00 | 0.21 | 3.92 | 0.11 | -- | -- | |
| ½ | 1D | -779436 | 40192 | -12843 | 2295 | -- | -- | -- | -4.08 | 0.19 | 1.00 | 0.21 | 4.05 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -722402 | 51191 | 5736 | -77 | -- | -- | -- | -3.78 | 0.18 | 1.00 | 0.27 | 3.83 | 0.14 | -- | -- | |
| ½ | 1J | -802882 | 51191 | 5736 | 3267 | -- | -- | -- | -4.20 | 0.20 | 1.00 | 0.27 | 4.14 | 0.13 | -- | -- | |
| ½ | 1K | -722402 | 51191 | -20479 | -77 | -- | -- | -- | -3.78 | 0.18 | 1.00 | 0.27 | 3.83 | 0.14 | -- | -- | |
| ½ | 1L | -802882 | 51191 | -20479 | 3267 | -- | -- | -- | -4.20 | 0.20 | 1.00 | 0.27 | 4.14 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -134304 | 21900 | 390 | 1990 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.73 | 4.37 | 0.34 | 0.02 | 0.01 | |
| 0 | 1B | -148703 | 21900 | 390 | 2453 | -- | -- | -- | -4.99 | 0.24 | 1.00 | 0.73 | 4.73 | 0.31 | 0.02 | 0.01 | |
| 0 | 1C | -134304 | 21900 | -571 | 1990 | -- | -- | -- | -4.51 | 0.21 | 1.00 | 0.73 | 4.37 | 0.34 | 0.02 | 0.01 | |
| 0 | 1D | -148703 | 21900 | -571 | 2453 | -- | -- | -- | -4.99 | 0.24 | 1.00 | 0.73 | 4.73 | 0.31 | 0.02 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -124254 | 23390 | 1060 | 1668 | -- | -- | -- | -4.17 | 0.20 | 1.00 | 0.78 | 4.12 | 0.38 | 0.02 | 0.02 | |
| 0 | 1J | -158753 | 23390 | 1060 | 2775 | -- | -- | -- | -5.33 | 0.25 | 1.00 | 0.78 | 4.98 | 0.31 | 0.02 | 0.01 | |
| 0 | 1K | -124254 | 23390 | -1242 | 1668 | -- | -- | -- | -4.17 | 0.20 | 1.00 | 0.78 | 4.12 | 0.38 | 0.02 | 0.02 | |
| 0 | 1L | -158753 | 23390 | -1242 | 2775 | -- | -- | -- | -5.33 | 0.25 | 1.00 | 0.78 | 4.98 | 0.31 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -24070 | 2283 | 758 | 0 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.28 | 2.89 | 0.20 | -- | -- | |
| l | 1B | -24121 | 2283 | 758 | 0 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.28 | 2.90 | 0.19 | -- | -- | |
| l | 1C | -24070 | 2283 | 752 | 0 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.28 | 2.89 | 0.20 | -- | -- | |
| l | 1D | -24121 | 2283 | 752 | 0 | -- | -- | -- | -2.98 | 0.21 | 1.00 | 0.28 | 2.90 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -24034 | 2303 | 762 | 0 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.28 | 2.89 | 0.20 | -- | -- | |
| l | 1J | -24157 | 2303 | 762 | 0 | -- | -- | -- | -2.99 | 0.21 | 1.00 | 0.28 | 2.90 | 0.20 | -- | -- | |
| l | 1K | -24034 | 2303 | 748 | 0 | -- | -- | -- | -2.97 | 0.21 | 1.00 | 0.28 | 2.89 | 0.20 | -- | -- | |
| l | 1L | -24157 | 2303 | 748 | 0 | -- | -- | -- | -2.99 | 0.21 | 1.00 | 0.28 | 2.90 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -136881 | 22195 | 3010 | 57 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.19 | 0.34 | -- | -- | |
| ½ | 1B | -136973 | 22195 | 3010 | 56 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.19 | 0.34 | -- | -- | |
| ½ | 1C | -136881 | 22195 | 3002 | 57 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.19 | 0.34 | -- | -- | |
| ½ | 1D | -136973 | 22195 | 3002 | 56 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.19 | 0.34 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -136817 | 22373 | 3017 | 58 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.18 | 0.35 | -- | -- | |
| ½ | 1J | -137037 | 22373 | 3017 | 55 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.19 | 0.35 | -- | -- | |
| ½ | 1K | -136817 | 22373 | 2996 | 58 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.18 | 0.35 | -- | -- | |
| ½ | 1L | -137037 | 22373 | 2996 | 55 | -- | -- | -- | -3.37 | 0.24 | 1.00 | 0.55 | 3.19 | 0.35 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27833 | 4085 | 967 | 0 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.51 | 3.24 | 0.31 | 0.00 | 0.08 | |
| 0 | 1B | -27859 | 4085 | 967 | 0 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.51 | 3.24 | 0.31 | 0.00 | 0.08 | |
| 0 | 1C | -27833 | 4085 | 963 | 0 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.51 | 3.24 | 0.31 | 0.00 | 0.08 | |
| 0 | 1D | -27859 | 4085 | 963 | 0 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.51 | 3.24 | 0.31 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27815 | 4117 | 971 | 0 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.51 | 3.24 | 0.31 | 0.00 | 0.08 | |
| 0 | 1J | -27877 | 4117 | 971 | 0 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.51 | 3.25 | 0.31 | 0.00 | 0.08 | |
| 0 | 1K | -27815 | 4117 | 960 | 0 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.51 | 3.24 | 0.31 | 0.00 | 0.08 | |
| 0 | 1L | -27877 | 4117 | 960 | 0 | -- | -- | -- | -3.45 | 0.25 | 1.00 | 0.51 | 3.25 | 0.31 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri interni**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 113 Descrizione: Maschio murario n. 113 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -13128 | 6163 | 201 | -6735 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.22 | 0.58 | -- | -- | |
| l | 1B | -13140 | 6163 | 201 | -6734 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.23 | 0.58 | -- | -- | |
| l | 1C | -13128 | 6163 | 196 | -6735 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.22 | 0.58 | -- | -- | |
| l | 1D | -13140 | 6163 | 196 | -6734 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.23 | 0.58 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -13120 | 6179 | 205 | -6735 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.22 | 0.58 | -- | -- | |
| l | 1J | -13149 | 6179 | 205 | -6733 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.23 | 0.58 | -- | -- | |
| l | 1K | -13120 | 6179 | 193 | -6735 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.22 | 0.58 | -- | -- | |
| l | 1L | -13149 | 6179 | 193 | -6733 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.35 | 1.23 | 0.58 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -170489 | 20228 | 1939 | -29087 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.23 | 2.13 | 0.22 | -- | -- | |
| ½ | 1B | -170666 | 20228 | 1939 | -29050 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.23 | 2.14 | 0.22 | -- | -- | |
| ½ | 1C | -170489 | 20228 | 1926 | -29087 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.23 | 2.13 | 0.22 | -- | -- | |
| ½ | 1D | -170666 | 20228 | 1926 | -29050 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.23 | 2.14 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -170366 | 20249 | 1949 | -29112 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.23 | 2.13 | 0.22 | -- | -- | |
| ½ | 1J | -170789 | 20249 | 1949 | -29025 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.23 | 2.14 | 0.22 | -- | -- | |
| ½ | 1K | -170366 | 20249 | 1916 | -29112 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.23 | 2.13 | 0.22 | -- | -- | |
| ½ | 1L | -170789 | 20249 | 1916 | -29025 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.23 | 2.14 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -51259 | 10370 | -69 | -776 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.87 | 0.42 | 0.02 | 0.00 | |
| 0 | 1B | -51289 | 10370 | -69 | -771 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.87 | 0.42 | 0.02 | 0.00 | |
| 0 | 1C | -51259 | 10370 | -74 | -776 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.87 | 0.42 | 0.02 | 0.00 | |
| 0 | 1D | -51289 | 10370 | -74 | -771 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.87 | 0.42 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51237 | 10372 | -65 | -779 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.86 | 0.42 | 0.02 | 0.00 | |
| 0 | 1J | -51310 | 10372 | -65 | -768 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.87 | 0.41 | 0.02 | 0.00 | |
| 0 | 1K | -51237 | 10372 | -78 | -779 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.86 | 0.42 | 0.02 | 0.00 | |
| 0 | 1L | -51310 | 10372 | -78 | -768 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.59 | 2.87 | 0.41 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -96517 | 10795 | 1505 | -6038 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.40 | 3.33 | 0.24 | -- | -- | |
| l | 1B | -96709 | 10795 | 1505 | -6044 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.40 | 3.34 | 0.24 | -- | -- | |
| l | 1C | -96517 | 10795 | 1499 | -6038 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.40 | 3.33 | 0.24 | -- | -- | |
| l | 1D | -96709 | 10795 | 1499 | -6044 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.40 | 3.34 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -96383 | 10850 | 1510 | -6033 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.40 | 3.33 | 0.24 | -- | -- | |
| l | 1J | -96843 | 10850 | 1510 | -6049 | -- | -- | -- | -3.57 | 0.26 | 1.00 | 0.40 | 3.34 | 0.24 | -- | -- | |
| l | 1K | -96383 | 10850 | 1495 | -6033 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.40 | 3.33 | 0.24 | -- | -- | |
| l | 1L | -96843 | 10850 | 1495 | -6049 | -- | -- | -- | -3.57 | 0.26 | 1.00 | 0.40 | 3.34 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -465792 | 42519 | 6020 | -1156 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.31 | 3.24 | 0.19 | -- | -- | |
| ½ | 1B | -466022 | 42519 | 6020 | -1182 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.31 | 3.24 | 0.19 | -- | -- | |
| ½ | 1C | -465792 | 42519 | 5995 | -1156 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.31 | 3.24 | 0.19 | -- | -- | |
| ½ | 1D | -466022 | 42519 | 5995 | -1182 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.31 | 3.24 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -465631 | 43111 | 6038 | -1137 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.32 | 3.24 | 0.20 | -- | -- | |
| ½ | 1J | -466182 | 43111 | 6038 | -1201 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.32 | 3.24 | 0.20 | -- | -- | |
| ½ | 1K | -465631 | 43111 | 5977 | -1137 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.32 | 3.24 | 0.20 | -- | -- | |
| ½ | 1L | -466182 | 43111 | 5977 | -1201 | -- | -- | -- | -3.44 | 0.25 | 1.00 | 0.32 | 3.24 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -99594 | 9296 | -4 | 802 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.34 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1B | -99647 | 9296 | -4 | 802 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.34 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1C | -99594 | 9296 | -5 | 802 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.34 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1D | -99647 | 9296 | -5 | 802 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.34 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -99556 | 9429 | -4 | 801 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.35 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1J | -99684 | 9429 | -4 | 802 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.35 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1K | -99556 | 9429 | -6 | 801 | -- | -- | -- | -3.67 | 0.26 | 1.00 | 0.35 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1L | -99684 | 9429 | -6 | 802 | -- | -- | -- | -3.68 | 0.26 | 1.00 | 0.35 | 3.42 | 0.20 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -258587 | 29892 | -484 | 17476 | -- | -- | -- | -3.84 | 0.27 | 1.00 | 0.44 | 3.54 | 0.25 | -- | -- | |
| l | 1B | -258863 | 29892 | -484 | 17399 | -- | -- | -- | -3.84 | 0.27 | 1.00 | 0.44 | 3.54 | 0.25 | -- | -- | |
| l | 1C | -258587 | 29892 | -552 | 17476 | -- | -- | -- | -3.84 | 0.27 | 1.00 | 0.44 | 3.54 | 0.25 | -- | -- | |
| l | 1D | -258863 | 29892 | -552 | 17399 | -- | -- | -- | -3.84 | 0.27 | 1.00 | 0.44 | 3.54 | 0.25 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -258395 | 30105 | -436 | 17529 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.45 | 3.53 | 0.25 | -- | -- | |
| l | 1J | -259055 | 30105 | -436 | 17345 | -- | -- | -- | -3.84 | 0.27 | 1.00 | 0.45 | 3.54 | 0.25 | -- | -- | |
| l | 1K | -258395 | 30105 | -600 | 17529 | -- | -- | -- | -3.83 | 0.27 | 1.00 | 0.45 | 3.53 | 0.25 | -- | -- | |
| l | 1L | -259055 | 30105 | -600 | 17345 | -- | -- | -- | -3.84 | 0.27 | 1.00 | 0.45 | 3.54 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -1273143 | 180386 | -12393 | 18525 | -- | -- | -- | -3.78 | 0.27 | 1.00 | 0.54 | 3.49 | 0.31 | -- | -- | |
| ½ | 1B | -1275089 | 180386 | -12393 | 20418 | -- | -- | -- | -3.78 | 0.27 | 1.00 | 0.54 | 3.50 | 0.31 | -- | -- | |
| ½ | 1C | -1273143 | 180386 | -12947 | 18525 | -- | -- | -- | -3.78 | 0.27 | 1.00 | 0.54 | 3.49 | 0.31 | -- | -- | |
| ½ | 1D | -1275089 | 180386 | -12947 | 20418 | -- | -- | -- | -3.78 | 0.27 | 1.00 | 0.54 | 3.50 | 0.31 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -1271785 | 181936 | -12006 | 17204 | -- | -- | -- | -3.77 | 0.27 | 1.00 | 0.54 | 3.49 | 0.31 | -- | -- | |
| ½ | 1J | -1276447 | 181936 | -12006 | 21740 | -- | -- | -- | -3.79 | 0.27 | 1.00 | 0.54 | 3.50 | 0.31 | -- | -- | |
| ½ | 1K | -1271785 | 181936 | -13334 | 17204 | -- | -- | -- | -3.77 | 0.27 | 1.00 | 0.54 | 3.49 | 0.31 | -- | -- | |
| ½ | 1L | -1276447 | 181936 | -13334 | 21740 | -- | -- | -- | -3.79 | 0.27 | 1.00 | 0.54 | 3.50 | 0.31 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -262290 | 34563 | -1063 | -1735 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.51 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1B | -262398 | 34563 | -1063 | -1782 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.51 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1C | -262290 | 34563 | -1074 | -1735 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.51 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1D | -262398 | 34563 | -1074 | -1782 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.51 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -262214 | 34860 | -1055 | -1701 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.52 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1J | -262474 | 34860 | -1055 | -1816 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.52 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1K | -262214 | 34860 | -1082 | -1701 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.52 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1L | -262474 | 34860 | -1082 | -1816 | -- | -- | -- | -3.89 | 0.28 | 1.00 | 0.52 | 3.58 | 0.29 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 542.00 cm

| P os | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -130082 | 6597 | -861 | 5227 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1B | -130099 | 6597 | -861 | 5232 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1C | -130082 | 6597 | -862 | 5227 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1D | -130099 | 6597 | -862 | 5232 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -130070 | 6600 | -860 | 5224 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1J | -130111 | 6600 | -860 | 5235 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1K | -130070 | 6600 | -863 | 5224 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1L | -130111 | 6600 | -863 | 5235 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.17 | 3.57 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -760545 | 58638 | -3113 | 36343 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1B | -760688 | 58638 | -3113 | 36413 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1C | -760545 | 58638 | -3116 | 36343 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1D | -760688 | 58638 | -3116 | 36413 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -760445 | 58656 | -3111 | 36294 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1J | -760787 | 58656 | -3111 | 36462 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1K | -760445 | 58656 | -3118 | 36294 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1L | -760787 | 58656 | -3118 | 36462 | -- | -- | -- | -5.03 | 0.24 | 1.00 | 0.39 | 4.76 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -215191 | 49882 | 650 | -2702 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1B | -215232 | 49882 | 650 | -2699 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1C | -215191 | 49882 | 650 | -2702 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1D | -215232 | 49882 | 650 | -2699 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -215163 | 49889 | 651 | -2705 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1J | -215260 | 49889 | 651 | -2696 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1K | -215163 | 49889 | 650 | -2705 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1L | -215260 | 49889 | 650 | -2696 | -- | -- | -- | -5.69 | 0.27 | 1.00 | 1.32 | 5.26 | 0.50 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -35605 | 247 | 78 | 0 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.02 | 3.08 | 0.01 | -- | -- | |
| l | 1B | -35749 | 247 | 78 | 0 | -- | -- | -- | -3.24 | 0.23 | 1.00 | 0.02 | 3.09 | 0.01 | -- | -- | |
| l | 1C | -35605 | 247 | 42 | 0 | -- | -- | -- | -3.23 | 0.23 | 1.00 | 0.02 | 3.08 | 0.01 | -- | -- | |
| l | 1D | -35749 | 247 | 42 | 0 | -- | -- | -- | -3.24 | 0.23 | 1.00 | 0.02 | 3.09 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -35505 | 286 | 104 | 0 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.03 | 3.07 | 0.02 | -- | -- | |
| l | 1J | -35849 | 286 | 104 | 0 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.03 | 3.10 | 0.02 | -- | -- | |
| l | 1K | -35505 | 286 | 16 | 0 | -- | -- | -- | -3.22 | 0.23 | 1.00 | 0.03 | 3.07 | 0.02 | -- | -- | |
| l | 1L | -35849 | 286 | 16 | 0 | -- | -- | -- | -3.25 | 0.23 | 1.00 | 0.03 | 3.10 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -180821 | 25600 | 293 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.46 | 3.12 | 0.30 | -- | -- | |
| ½ | 1B | -181023 | 25600 | 293 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.46 | 3.12 | 0.30 | -- | -- | |
| ½ | 1C | -180821 | 25600 | 223 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.46 | 3.12 | 0.30 | -- | -- | |
| ½ | 1D | -181023 | 25600 | 223 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.46 | 3.12 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -180680 | 25875 | 342 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.47 | 3.12 | 0.30 | -- | -- | |
| ½ | 1J | -181164 | 25875 | 342 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.47 | 3.12 | 0.30 | -- | -- | |
| ½ | 1K | -180680 | 25875 | 175 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.47 | 3.12 | 0.30 | -- | -- | |
| ½ | 1L | -181164 | 25875 | 175 | 0 | -- | -- | -- | -3.28 | 0.23 | 1.00 | 0.47 | 3.12 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -42025 | 9256 | -43 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1B | -42037 | 9256 | -43 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1C | -42025 | 9256 | -46 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1D | -42037 | 9256 | -46 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -42017 | 9317 | -40 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1J | -42046 | 9317 | -40 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1K | -42017 | 9317 | -48 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1L | -42046 | 9317 | -48 | 0 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.84 | 3.52 | 0.48 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 118 Descrizione: Maschio murario n. 118 interno
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -53125 | 10576 | 61 | -333 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.74 | 3.46 | 0.43 | -- | -- | |
| l | 1B | -53166 | 10576 | 61 | -339 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.74 | 3.47 | 0.43 | -- | -- | |
| l | 1C | -53125 | 10576 | 51 | -333 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.74 | 3.46 | 0.43 | -- | -- | |
| l | 1D | -53166 | 10576 | 51 | -339 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.74 | 3.47 | 0.43 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -53096 | 10634 | 68 | -329 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.75 | 3.46 | 0.43 | -- | -- | |
| l | 1J | -53195 | 10634 | 68 | -343 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.75 | 3.47 | 0.43 | -- | -- | |
| l | 1K | -53096 | 10634 | 43 | -329 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.75 | 3.46 | 0.43 | -- | -- | |
| l | 1L | -53195 | 10634 | 43 | -343 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.75 | 3.47 | 0.43 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -253338 | 44354 | 394 | 731 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.62 | 3.33 | 0.37 | -- | -- | |
| ½ | 1B | -253502 | 44354 | 394 | 720 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.62 | 3.34 | 0.37 | -- | -- | |
| ½ | 1C | -253338 | 44354 | 344 | 731 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.62 | 3.33 | 0.37 | -- | -- | |
| ½ | 1D | -253502 | 44354 | 344 | 720 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.62 | 3.34 | 0.37 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -253224 | 44621 | 429 | 738 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.63 | 3.33 | 0.38 | -- | -- | |
| ½ | 1J | -253616 | 44621 | 429 | 713 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.63 | 3.34 | 0.38 | -- | -- | |
| ½ | 1K | -253224 | 44621 | 309 | 738 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.63 | 3.33 | 0.38 | -- | -- | |
| ½ | 1L | -253616 | 44621 | 309 | 713 | -- | -- | -- | -3.57 | 0.25 | 1.00 | 0.63 | 3.34 | 0.38 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -54081 | 12543 | -51 | 202 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.88 | 3.51 | 0.50 | 0.01 | 0.00 | |
| 0 | 1B | -54115 | 12543 | -51 | 205 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.88 | 3.52 | 0.50 | 0.01 | 0.00 | |
| 0 | 1C | -54081 | 12543 | -55 | 202 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.88 | 3.51 | 0.50 | 0.01 | 0.00 | |
| 0 | 1D | -54115 | 12543 | -55 | 205 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.88 | 3.52 | 0.50 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54057 | 12607 | -49 | 199 | -- | -- | -- | -3.80 | 0.27 | 1.00 | 0.89 | 3.51 | 0.51 | 0.01 | 0.00 | |
| 0 | 1J | -54138 | 12607 | -49 | 207 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.89 | 3.52 | 0.50 | 0.01 | 0.00 | |
| 0 | 1K | -54057 | 12607 | -58 | 199 | -- | -- | -- | -3.80 | 0.27 | 1.00 | 0.89 | 3.51 | 0.51 | 0.01 | 0.00 | |
| 0 | 1L | -54138 | 12607 | -58 | 207 | -- | -- | -- | -3.81 | 0.27 | 1.00 | 0.89 | 3.52 | 0.50 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 542.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -26030 | 7989 | -87 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.05 | 3.23 | 0.65 | -- | -- | |
| l | 1B | -26034 | 7989 | -87 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.05 | 3.23 | 0.65 | -- | -- | |
| l | 1C | -26030 | 7989 | -105 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.05 | 3.23 | 0.65 | -- | -- | |
| l | 1D | -26034 | 7989 | -105 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.05 | 3.23 | 0.65 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -26027 | 8022 | -75 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.06 | 3.23 | 0.65 | -- | -- | |
| l | 1J | -26036 | 8022 | -75 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.06 | 3.23 | 0.65 | -- | -- | |
| l | 1K | -26027 | 8022 | -117 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.06 | 3.23 | 0.65 | -- | -- | |
| l | 1L | -26036 | 8022 | -117 | 0 | -- | -- | -- | -3.42 | 0.24 | 1.00 | 1.06 | 3.23 | 0.65 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -137748 | 29719 | -71 | -38 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.77 | 3.33 | 0.46 | -- | -- | |
| ½ | 1B | -137833 | 29719 | -71 | -39 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.77 | 3.33 | 0.46 | -- | -- | |
| ½ | 1C | -137748 | 29719 | -119 | -38 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.77 | 3.33 | 0.46 | -- | -- | |
| ½ | 1D | -137833 | 29719 | -119 | -39 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.77 | 3.33 | 0.46 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -137688 | 29870 | -37 | -38 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.77 | 3.32 | 0.46 | -- | -- | |
| ½ | 1J | -137893 | 29870 | -37 | -39 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.77 | 3.33 | 0.46 | -- | -- | |
| ½ | 1K | -137688 | 29870 | -153 | -38 | -- | -- | -- | -3.55 | 0.25 | 1.00 | 0.77 | 3.32 | 0.46 | -- | -- | |
| ½ | 1L | -137893 | 29870 | -153 | -39 | -- | -- | -- | -3.56 | 0.25 | 1.00 | 0.77 | 3.33 | 0.46 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29780 | 6020 | -20 | 0 | -- | -- | -- | -3.92 | 0.28 | 1.00 | 0.79 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1B | -29804 | 6020 | -20 | 0 | -- | -- | -- | -3.92 | 0.28 | 1.00 | 0.79 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1C | -29780 | 6020 | -26 | 0 | -- | -- | -- | -3.92 | 0.28 | 1.00 | 0.79 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1D | -29804 | 6020 | -26 | 0 | -- | -- | -- | -3.92 | 0.28 | 1.00 | 0.79 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29763 | 6046 | -17 | 0 | -- | -- | -- | -3.91 | 0.28 | 1.00 | 0.80 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1J | -29821 | 6046 | -17 | 0 | -- | -- | -- | -3.92 | 0.28 | 1.00 | 0.80 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1K | -29763 | 6046 | -29 | 0 | -- | -- | -- | -3.91 | 0.28 | 1.00 | 0.80 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1L | -29821 | 6046 | -29 | 0 | -- | -- | -- | -3.92 | 0.28 | 1.00 | 0.80 | 3.60 | 0.44 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 120 Descrizione: Maschio murario n. 120 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -63183 | 13292 | -1013 | 1567 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1B | -63213 | 13292 | -1013 | 1568 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1C | -63183 | 13292 | -1035 | 1567 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1D | -63213 | 13292 | -1035 | 1568 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -63162 | 13295 | -998 | 1566 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1J | -63234 | 13295 | -998 | 1568 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1K | -63162 | 13295 | -1050 | 1566 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1L | -63234 | 13295 | -1050 | 1568 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.66 | 3.35 | 0.40 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -392431 | 48674 | 1520 | -10449 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1B | -392597 | 48674 | 1520 | -10446 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1C | -392431 | 48674 | 1492 | -10449 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1D | -392597 | 48674 | 1492 | -10446 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -392316 | 48713 | 1539 | -10451 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1J | -392713 | 48713 | 1539 | -10445 | -- | -- | -- | -3.97 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1K | -392316 | 48713 | 1473 | -10451 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1L | -392713 | 48713 | 1473 | -10445 | -- | -- | -- | -3.97 | 0.19 | 1.00 | 0.49 | 3.96 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -88496 | 18761 | -1280 | -12365 | -- | -- | -- | -4.41 | 0.21 | 1.00 | 0.93 | 4.29 | 0.44 | 0.22 | 0.03 | |
| 0 | 1B | -88576 | 18761 | -1280 | -12384 | -- | -- | -- | -4.41 | 0.21 | 1.00 | 0.93 | 4.30 | 0.43 | 0.22 | 0.03 | |
| 0 | 1C | -88496 | 18761 | -1293 | -12365 | -- | -- | -- | -4.41 | 0.21 | 1.00 | 0.93 | 4.29 | 0.44 | 0.22 | 0.03 | |
| 0 | 1D | -88576 | 18761 | -1293 | -12384 | -- | -- | -- | -4.41 | 0.21 | 1.00 | 0.93 | 4.30 | 0.43 | 0.22 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -88440 | 18779 | -1271 | -12352 | -- | -- | -- | -4.40 | 0.21 | 1.00 | 0.94 | 4.29 | 0.44 | 0.22 | 0.03 | |
| 0 | 1J | -88632 | 18779 | -1271 | -12397 | -- | -- | -- | -4.41 | 0.21 | 1.00 | 0.94 | 4.30 | 0.43 | 0.22 | 0.03 | |
| 0 | 1K | -88440 | 18779 | -1302 | -12352 | -- | -- | -- | -4.40 | 0.21 | 1.00 | 0.94 | 4.29 | 0.44 | 0.22 | 0.03 | |
| 0 | 1L | -88632 | 18779 | -1302 | -12397 | -- | -- | -- | -4.41 | 0.21 | 1.00 | 0.94 | 4.30 | 0.43 | 0.22 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 121 Descrizione: Maschio murario n. 121 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -80176 | 5973 | 1264 | 4512 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1B | -80199 | 5973 | 1264 | 4524 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1C | -80176 | 5973 | 1260 | 4512 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1D | -80199 | 5973 | 1260 | 4524 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -80159 | 5979 | 1266 | 4504 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1J | -80216 | 5979 | 1266 | 4532 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1K | -80159 | 5979 | 1258 | 4504 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1L | -80216 | 5979 | 1258 | 4532 | -- | -- | -- | -2.18 | 0.10 | 1.00 | 0.16 | 2.62 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -728549 | 67029 | 25916 | 4482 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1B | -728836 | 67029 | 25916 | 4598 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1C | -728549 | 67029 | 25909 | 4482 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1D | -728836 | 67029 | 25909 | 4598 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -728348 | 67084 | 25921 | 4401 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1J | -729036 | 67084 | 25921 | 4679 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1K | -728348 | 67084 | 25905 | 4401 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1L | -729036 | 67084 | 25905 | 4679 | -- | -- | -- | -3.96 | 0.19 | 1.00 | 0.36 | 3.96 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -179619 | 44586 | 344 | -12332 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1B | -179676 | 44586 | 344 | -12348 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1C | -179619 | 44586 | 344 | -12332 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1D | -179676 | 44586 | 344 | -12348 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -179579 | 44601 | 345 | -12320 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1J | -179716 | 44601 | 345 | -12359 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1K | -179579 | 44601 | 344 | -12320 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1L | -179716 | 44601 | 344 | -12359 | -- | -- | -- | -4.88 | 0.23 | 1.00 | 1.21 | 4.65 | 0.52 | 0.06 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 122 Descrizione: Maschio murario n. 122 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -48030 | 5593 | -51 | -252 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1B | -48034 | 5593 | -51 | -253 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1C | -48030 | 5593 | -52 | -252 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1D | -48034 | 5593 | -52 | -253 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -48027 | 5594 | -51 | -252 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1J | -48036 | 5594 | -51 | -253 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1K | -48027 | 5594 | -52 | -252 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1L | -48036 | 5594 | -52 | -253 | -- | -- | -- | -3.15 | 0.15 | 1.00 | 0.37 | 3.35 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -351023 | 24905 | 17587 | 13143 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1B | -351063 | 24905 | 17587 | 13149 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1C | -351023 | 24905 | 17583 | 13143 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1D | -351063 | 24905 | 17583 | 13149 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -350995 | 24916 | 17590 | 13140 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1J | -351090 | 24916 | 17590 | 13153 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1K | -350995 | 24916 | 17581 | 13140 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1L | -351090 | 24916 | 17581 | 13153 | -- | -- | -- | -4.60 | 0.22 | 1.00 | 0.33 | 4.44 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -82320 | 14356 | 118 | 9275 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1B | -82326 | 14356 | 118 | 9276 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1C | -82320 | 14356 | 118 | 9275 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1D | -82326 | 14356 | 118 | 9276 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -82315 | 14359 | 118 | 9275 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1J | -82331 | 14359 | 118 | 9276 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1K | -82315 | 14359 | 118 | 9275 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1L | -82331 | 14359 | 118 | 9276 | -- | -- | -- | -5.39 | 0.26 | 1.00 | 0.94 | 5.03 | 0.37 | 0.25 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 123 Descrizione: Maschio murario n. 123 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -7387 | 2459 | -74 | -0 | -- | -- | -- | -0.80 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1B | -7389 | 2459 | -74 | -0 | -- | -- | -- | -0.80 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1C | -7387 | 2459 | -75 | -0 | -- | -- | -- | -0.80 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1D | -7389 | 2459 | -75 | -0 | -- | -- | -- | -0.80 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -7386 | 2459 | -74 | -0 | -- | -- | -- | -0.80 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1J | -7390 | 2459 | -74 | -0 | -- | -- | -- | -0.81 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1K | -7386 | 2459 | -75 | -0 | -- | -- | -- | -0.80 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1L | -7390 | 2459 | -75 | -0 | -- | -- | -- | -0.81 | 0.04 | 1.00 | 0.27 | 1.59 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -120924 | 9118 | 266 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1B | -120946 | 9118 | 266 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1C | -120924 | 9118 | 261 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1D | -120946 | 9118 | 261 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -120908 | 9120 | 269 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1J | -120962 | 9120 | 269 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1K | -120908 | 9120 | 258 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1L | -120962 | 9120 | 258 | -3117 | -- | -- | -- | -1.79 | 0.09 | 1.00 | 0.13 | 2.33 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -26593 | 2652 | -981 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1B | -26598 | 2652 | -981 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1C | -26593 | 2652 | -982 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1D | -26598 | 2652 | -982 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26589 | 2652 | -981 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1J | -26602 | 2652 | -981 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1K | -26589 | 2652 | -983 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1L | -26602 | 2652 | -983 | -0 | -- | -- | -- | -2.35 | 0.11 | 1.00 | 0.23 | 2.75 | 0.17 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 124 Descrizione: Maschio murario n. 124 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -39946 | 7474 | -543 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.38 | 0.35 | -- | -- | |
| l | 1B | -39952 | 7474 | -543 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.39 | 0.35 | -- | -- | |
| l | 1C | -39946 | 7474 | -544 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.38 | 0.35 | -- | -- | |
| l | 1D | -39952 | 7474 | -544 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.39 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -39942 | 7474 | -542 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.38 | 0.35 | -- | -- | |
| l | 1J | -39956 | 7474 | -542 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.39 | 0.35 | -- | -- | |
| l | 1K | -39942 | 7474 | -545 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.38 | 0.35 | -- | -- | |
| l | 1L | -39956 | 7474 | -545 | 46 | -- | -- | -- | -3.19 | 0.15 | 1.00 | 0.60 | 3.39 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -338849 | 30300 | 10079 | 12515 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1B | -338883 | 30300 | 10079 | 12517 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1C | -338849 | 30300 | 10070 | 12515 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1D | -338883 | 30300 | 10070 | 12517 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -338826 | 30305 | 10085 | 12513 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1J | -338906 | 30305 | 10085 | 12518 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1K | -338826 | 30305 | 10064 | 12513 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1L | -338906 | 30305 | 10064 | 12518 | -- | -- | -- | -4.83 | 0.23 | 1.00 | 0.43 | 4.61 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -79891 | 13501 | 240 | 9359 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1B | -79895 | 13501 | 240 | 9360 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1C | -79891 | 13501 | 239 | 9359 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1D | -79895 | 13501 | 239 | 9360 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -79888 | 13502 | 241 | 9359 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1J | -79898 | 13502 | 241 | 9360 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1K | -79888 | 13502 | 239 | 9359 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1L | -79898 | 13502 | 239 | 9360 | -- | -- | -- | -5.79 | 0.28 | 1.00 | 0.98 | 5.33 | 0.37 | 0.28 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 125 Descrizione: Maschio murario n. 125
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -29690 | 834 | 59 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1B | -29692 | 834 | 59 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1C | -29690 | 834 | 58 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1D | -29692 | 834 | 58 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -29689 | 838 | 60 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1J | -29694 | 838 | 60 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1K | -29689 | 838 | 57 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1L | -29694 | 838 | 57 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.11 | 4.02 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -130769 | 14314 | 317 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1B | -130786 | 14314 | 317 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1C | -130769 | 14314 | 314 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1D | -130786 | 14314 | 314 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -130757 | 14337 | 319 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1J | -130798 | 14337 | 319 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1K | -130757 | 14337 | 312 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1L | -130798 | 14337 | 312 | -0 | -- | -- | -- | -4.45 | 0.21 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -29657 | 3789 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1B | -29666 | 3789 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1C | -29657 | 3789 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1D | -29666 | 3789 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29651 | 3796 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1J | -29672 | 3796 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1K | -29651 | 3796 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1L | -29672 | 3796 | 163 | 0 | -- | -- | -- | -4.04 | 0.19 | 1.00 | 0.52 | 4.02 | 0.26 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -59615 | 5694 | -31 | 2803 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1B | -59625 | 5694 | -31 | 2803 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1C | -59615 | 5694 | -35 | 2803 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1D | -59625 | 5694 | -35 | 2803 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -59609 | 5702 | -28 | 2803 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1J | -59631 | 5702 | -28 | 2802 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1K | -59609 | 5702 | -38 | 2803 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1L | -59631 | 5702 | -38 | 2802 | -- | -- | -- | -3.52 | 0.17 | 1.00 | 0.34 | 3.63 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -274724 | 26723 | 1234 | -5954 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1B | -274777 | 26723 | 1234 | -5959 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1C | -274724 | 26723 | 1227 | -5954 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1D | -274777 | 26723 | 1227 | -5959 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -274687 | 26760 | 1239 | -5951 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1J | -274814 | 26760 | 1239 | -5962 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1K | -274687 | 26760 | 1222 | -5951 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1L | -274814 | 26760 | 1222 | -5962 | -- | -- | -- | -5.00 | 0.24 | 1.00 | 0.49 | 4.74 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -85939 | 20120 | 1591 | -11055 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.68 | 0.52 | 0.32 | 0.05 | |
| 0 | 1B | -85980 | 20120 | 1591 | -11064 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.69 | 0.52 | 0.32 | 0.05 | |
| 0 | 1C | -85939 | 20120 | 1588 | -11055 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.68 | 0.52 | 0.32 | 0.05 | |
| 0 | 1D | -85980 | 20120 | 1588 | -11064 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.69 | 0.52 | 0.32 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -85910 | 20132 | 1594 | -11050 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.68 | 0.52 | 0.32 | 0.05 | |
| 0 | 1J | -86009 | 20132 | 1594 | -11070 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.69 | 0.52 | 0.32 | 0.05 | |
| 0 | 1K | -85910 | 20132 | 1585 | -11050 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.68 | 0.52 | 0.32 | 0.05 | |
| 0 | 1L | -86009 | 20132 | 1585 | -11070 | -- | -- | -- | -6.26 | 0.30 | 1.00 | 1.47 | 5.69 | 0.52 | 0.32 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -63645 | 2558 | -86 | -2050 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1B | -63654 | 2558 | -86 | -2048 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1C | -63645 | 2558 | -89 | -2050 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1D | -63654 | 2558 | -89 | -2048 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -63639 | 2564 | -84 | -2052 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1J | -63661 | 2564 | -84 | -2047 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1K | -63639 | 2564 | -91 | -2052 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1L | -63661 | 2564 | -91 | -2047 | -- | -- | -- | -3.71 | 0.18 | 1.00 | 0.15 | 3.77 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -327386 | 46230 | 116 | 5803 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.29 | -- | -- | |
| ½ | 1B | -327464 | 46230 | 116 | 5816 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.29 | -- | -- | |
| ½ | 1C | -327386 | 46230 | 109 | 5803 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.29 | -- | -- | |
| ½ | 1D | -327464 | 46230 | 109 | 5816 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -327332 | 46273 | 121 | 5795 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.30 | -- | -- | |
| ½ | 1J | -327519 | 46273 | 121 | 5824 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.30 | -- | -- | |
| ½ | 1K | -327332 | 46273 | 104 | 5795 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.30 | -- | -- | |
| ½ | 1L | -327519 | 46273 | 104 | 5824 | -- | -- | -- | -4.77 | 0.23 | 1.00 | 0.67 | 4.57 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -106814 | 35703 | 78 | 21880 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 2.08 | 5.66 | 0.74 | 0.40 | 0.00 | |
| 0 | 1B | -106879 | 35703 | 78 | 21897 | -- | -- | -- | -6.23 | 0.30 | 1.00 | 2.08 | 5.66 | 0.73 | 0.40 | 0.00 | |
| 0 | 1C | -106814 | 35703 | 77 | 21880 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 2.08 | 5.66 | 0.74 | 0.40 | 0.00 | |
| 0 | 1D | -106879 | 35703 | 77 | 21897 | -- | -- | -- | -6.23 | 0.30 | 1.00 | 2.08 | 5.66 | 0.73 | 0.40 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -106769 | 35717 | 78 | 21868 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 2.08 | 5.65 | 0.74 | 0.40 | 0.00 | |
| 0 | 1J | -106924 | 35717 | 78 | 21909 | -- | -- | -- | -6.23 | 0.30 | 1.00 | 2.08 | 5.66 | 0.74 | 0.40 | 0.00 | |
| 0 | 1K | -106769 | 35717 | 77 | 21868 | -- | -- | -- | -6.22 | 0.30 | 1.00 | 2.08 | 5.65 | 0.74 | 0.40 | 0.00 | |
| 0 | 1L | -106924 | 35717 | 77 | 21909 | -- | -- | -- | -6.23 | 0.30 | 1.00 | 2.08 | 5.66 | 0.74 | 0.40 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 128 Descrizione: Maschio murario n. 128 veso portico
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -56320 | 4393 | 51 | 2335 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1B | -56328 | 4393 | 51 | 2334 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1C | -56320 | 4393 | 50 | 2335 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1D | -56328 | 4393 | 50 | 2334 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -56314 | 4395 | 52 | 2335 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1J | -56333 | 4395 | 52 | 2334 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1K | -56314 | 4395 | 49 | 2335 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1L | -56333 | 4395 | 49 | 2334 | -- | -- | -- | -3.36 | 0.16 | 1.00 | 0.26 | 3.51 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -345219 | 23783 | -3310 | -17431 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.35 | 4.85 | 0.15 | -- | -- | |
| ½ | 1B | -345324 | 23783 | -3310 | -17442 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.35 | 4.85 | 0.15 | -- | -- | |
| ½ | 1C | -345219 | 23783 | -3316 | -17431 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.35 | 4.85 | 0.15 | -- | -- | |
| ½ | 1D | -345324 | 23783 | -3316 | -17442 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.35 | 4.85 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -345145 | 23796 | -3306 | -17423 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.36 | 4.85 | 0.15 | -- | -- | |
| ½ | 1J | -345397 | 23796 | -3306 | -17450 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.36 | 4.86 | 0.15 | -- | -- | |
| ½ | 1K | -345145 | 23796 | -3320 | -17423 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.36 | 4.85 | 0.15 | -- | -- | |
| ½ | 1L | -345397 | 23796 | -3320 | -17450 | -- | -- | -- | -5.15 | 0.25 | 1.00 | 0.36 | 4.86 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -93847 | 19089 | -661 | -15489 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1B | -93870 | 19089 | -661 | -15492 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1C | -93847 | 19089 | -663 | -15489 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1D | -93870 | 19089 | -663 | -15492 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -93831 | 19090 | -659 | -15488 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1J | -93886 | 19090 | -659 | -15494 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1K | -93831 | 19090 | -664 | -15488 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1L | -93886 | 19090 | -664 | -15494 | -- | -- | -- | -5.60 | 0.27 | 1.00 | 1.14 | 5.19 | 0.44 | 0.32 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 129 Descrizione: Maschio murario n. 129 interrato
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14176 | 5289 | -68 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1B | -14179 | 5289 | -68 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1C | -14176 | 5289 | -69 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1D | -14179 | 5289 | -69 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -14174 | 5289 | -67 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1J | -14182 | 5289 | -67 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1K | -14174 | 5289 | -69 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1L | -14182 | 5289 | -69 | 0 | -- | -- | -- | -1.32 | 0.06 | 1.00 | 0.49 | 1.98 | 0.50 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -130592 | 6722 | 7874 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1B | -130602 | 6722 | 7874 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1C | -130592 | 6722 | 7868 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1D | -130602 | 6722 | 7868 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -130585 | 6723 | 7879 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1J | -130609 | 6723 | 7879 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1K | -130585 | 6723 | 7863 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1L | -130609 | 6723 | 7863 | 0 | -- | -- | -- | -2.44 | 0.12 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -34951 | 3943 | 357 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1B | -34952 | 3943 | 357 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1C | -34951 | 3943 | 356 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1D | -34952 | 3943 | 356 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -34951 | 3943 | 357 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1J | -34952 | 3943 | 357 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1K | -34951 | 3943 | 356 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1L | -34952 | 3943 | 356 | 0 | -- | -- | -- | -3.26 | 0.16 | 1.00 | 0.37 | 3.44 | 0.21 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -56103 | 6658 | -41 | -76 | -- | -- | -- | -3.49 | 0.25 | 1.00 | 0.41 | 3.28 | 0.25 | -- | -- | |
| l | 1B | -56164 | 6658 | -41 | -68 | -- | -- | -- | -3.50 | 0.25 | 1.00 | 0.41 | 3.28 | 0.25 | -- | -- | |
| l | 1C | -56103 | 6658 | -54 | -76 | -- | -- | -- | -3.49 | 0.25 | 1.00 | 0.41 | 3.28 | 0.25 | -- | -- | |
| l | 1D | -56164 | 6658 | -54 | -68 | -- | -- | -- | -3.50 | 0.25 | 1.00 | 0.41 | 3.28 | 0.25 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -56061 | 6690 | -32 | -82 | -- | -- | -- | -3.49 | 0.25 | 1.00 | 0.42 | 3.28 | 0.25 | -- | -- | |
| l | 1J | -56206 | 6690 | -32 | -62 | -- | -- | -- | -3.50 | 0.25 | 1.00 | 0.42 | 3.28 | 0.25 | -- | -- | |
| l | 1K | -56061 | 6690 | -63 | -82 | -- | -- | -- | -3.49 | 0.25 | 1.00 | 0.42 | 3.28 | 0.25 | -- | -- | |
| l | 1L | -56206 | 6690 | -63 | -62 | -- | -- | -- | -3.50 | 0.25 | 1.00 | 0.42 | 3.28 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -366287 | 52201 | -1941 | -467 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1B | -366492 | 52201 | -1941 | -457 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1C | -366287 | 52201 | -2012 | -467 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1D | -366492 | 52201 | -2012 | -457 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -366144 | 52290 | -1892 | -474 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1J | -366635 | 52290 | -1892 | -450 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1K | -366144 | 52290 | -2061 | -474 | -- | -- | -- | -3.73 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1L | -366635 | 52290 | -2061 | -450 | -- | -- | -- | -3.74 | 0.27 | 1.00 | 0.53 | 3.46 | 0.31 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -69954 | 13901 | 549 | -262 | -- | -- | -- | -3.94 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1B | -69981 | 13901 | 549 | -262 | -- | -- | -- | -3.94 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1C | -69954 | 13901 | 523 | -262 | -- | -- | -- | -3.94 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1D | -69981 | 13901 | 523 | -262 | -- | -- | -- | -3.94 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -69935 | 13915 | 567 | -262 | -- | -- | -- | -3.94 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1J | -70000 | 13915 | 567 | -262 | -- | -- | -- | -3.95 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1K | -69935 | 13915 | 505 | -262 | -- | -- | -- | -3.94 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1L | -70000 | 13915 | 505 | -262 | -- | -- | -- | -3.95 | 0.28 | 1.00 | 0.78 | 3.62 | 0.43 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -206658 | 11288 | -2462 | 9426 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1B | -206768 | 11288 | -2462 | 9385 | -- | -- | -- | -3.40 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1C | -206658 | 11288 | -2472 | 9426 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1D | -206768 | 11288 | -2472 | 9385 | -- | -- | -- | -3.40 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -206581 | 11400 | -2456 | 9454 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1J | -206844 | 11400 | -2456 | 9357 | -- | -- | -- | -3.40 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1K | -206581 | 11400 | -2478 | 9454 | -- | -- | -- | -3.39 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1L | -206844 | 11400 | -2478 | 9357 | -- | -- | -- | -3.40 | 0.24 | 1.00 | 0.19 | 3.21 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -1413575 | 59002 | -21311 | 28362 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1B | -1413969 | 59002 | -21311 | 28221 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1C | -1413575 | 59002 | -21358 | 28362 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1D | -1413969 | 59002 | -21358 | 28221 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -1413300 | 59630 | -21278 | 28460 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1J | -1414245 | 59630 | -21278 | 28123 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1K | -1413300 | 59630 | -21391 | 28460 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1L | -1414245 | 59630 | -21391 | 28123 | -- | -- | -- | -3.72 | 0.27 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -239336 | 12630 | 2295 | 768 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.11 | 0.00 | 0.02 | |
| 0 | 1B | -239366 | 12630 | 2295 | 760 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.11 | 0.00 | 0.02 | |
| 0 | 1C | -239336 | 12630 | 2293 | 768 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.11 | 0.00 | 0.02 | |
| 0 | 1D | -239366 | 12630 | 2293 | 760 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.11 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -239315 | 12708 | 2296 | 774 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.12 | 0.00 | 0.02 | |
| 0 | 1J | -239388 | 12708 | 2296 | 754 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.12 | 0.00 | 0.02 | |
| 0 | 1K | -239315 | 12708 | 2292 | 774 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.12 | 0.00 | 0.02 | |
| 0 | 1L | -239388 | 12708 | 2292 | 754 | -- | -- | -- | -3.93 | 0.28 | 1.00 | 0.21 | 3.61 | 0.12 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri in cantina**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **28.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 132 Descrizione: Maschio murario n. 132
altezza calcolata: 542.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -33590 | 5261 | 182 | 0 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.52 | 3.13 | 0.33 | -- | -- | |
| l | 1B | -33636 | 5261 | 182 | 0 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.52 | 3.14 | 0.33 | -- | -- | |
| l | 1C | -33590 | 5261 | 180 | 0 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.52 | 3.13 | 0.33 | -- | -- | |
| l | 1D | -33636 | 5261 | 180 | 0 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.52 | 3.14 | 0.33 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -33558 | 5263 | 184 | 0 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.52 | 3.13 | 0.33 | -- | -- | |
| l | 1J | -33669 | 5263 | 184 | 0 | -- | -- | -- | -3.31 | 0.24 | 1.00 | 0.52 | 3.14 | 0.33 | -- | -- | |
| l | 1K | -33558 | 5263 | 179 | 0 | -- | -- | -- | -3.30 | 0.24 | 1.00 | 0.52 | 3.13 | 0.33 | -- | -- | |
| l | 1L | -33669 | 5263 | 179 | 0 | -- | -- | -- | -3.31 | 0.24 | 1.00 | 0.52 | 3.14 | 0.33 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -422217 | 31511 | -3519 | -4746 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.16 | -- | -- | |
| ½ | 1B | -422372 | 31511 | -3519 | -4733 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.16 | -- | -- | |
| ½ | 1C | -422217 | 31511 | -3530 | -4746 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.16 | -- | -- | |
| ½ | 1D | -422372 | 31511 | -3530 | -4733 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -422109 | 31671 | -3511 | -4755 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.17 | -- | -- | |
| ½ | 1J | -422481 | 31671 | -3511 | -4724 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.17 | -- | -- | |
| ½ | 1K | -422109 | 31671 | -3538 | -4755 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.17 | -- | -- | |
| ½ | 1L | -422481 | 31671 | -3538 | -4724 | -- | -- | -- | -4.17 | 0.30 | 1.00 | 0.31 | 3.79 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -101548 | 17061 | -4393 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.70 | 0.37 | 0.01 | 0.11 | |
| 0 | 1B | -101585 | 17061 | -4393 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.70 | 0.37 | 0.01 | 0.11 | |
| 0 | 1C | -101548 | 17061 | -4395 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.70 | 0.37 | 0.01 | 0.11 | |
| 0 | 1D | -101585 | 17061 | -4395 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.70 | 0.37 | 0.01 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -101522 | 17103 | -4392 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.70 | 0.37 | 0.01 | 0.11 | |
| 0 | 1J | -101610 | 17103 | -4392 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.71 | 0.37 | 0.01 | 0.11 | |
| 0 | 1K | -101522 | 17103 | -4396 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.70 | 0.37 | 0.01 | 0.11 | |
| 0 | 1L | -101610 | 17103 | -4396 | 1012 | -- | -- | -- | -4.06 | 0.29 | 1.00 | 0.68 | 3.71 | 0.37 | 0.01 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **3** Tabella: **Tabella muri cantina placcati**
Descrizione: **Muri fondazione 2**
Tipo di verifica: **Stato limite** fk: **42.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 542.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -28408 | 2191 | 230 | -1385 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1B | -28412 | 2191 | 230 | -1385 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1C | -28408 | 2191 | 223 | -1385 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1D | -28412 | 2191 | 223 | -1385 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -28405 | 2193 | 235 | -1385 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1J | -28415 | 2193 | 235 | -1384 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1K | -28405 | 2193 | 217 | -1385 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1L | -28415 | 2193 | 217 | -1384 | -- | -- | -- | -3.18 | 0.15 | 1.00 | 0.25 | 3.38 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -339618 | 19232 | 5689 | 368 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.19 | 3.57 | 0.11 | -- | -- | |
| ½ | 1B | -339712 | 19232 | 5689 | 373 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.19 | 3.57 | 0.11 | -- | -- | |
| ½ | 1C | -339618 | 19232 | 5625 | 368 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.19 | 3.57 | 0.11 | -- | -- | |
| ½ | 1D | -339712 | 19232 | 5625 | 373 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.19 | 3.57 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -339553 | 19259 | 5734 | 363 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.20 | 3.57 | 0.11 | -- | -- | |
| ½ | 1J | -339778 | 19259 | 5734 | 378 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.20 | 3.57 | 0.11 | -- | -- | |
| ½ | 1K | -339553 | 19259 | 5580 | 363 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.20 | 3.57 | 0.11 | -- | -- | |
| ½ | 1L | -339778 | 19259 | 5580 | 378 | -- | -- | -- | -3.44 | 0.16 | 1.00 | 0.20 | 3.57 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -77849 | 19882 | 862 | 3953 | -- | -- | -- | -5.09 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1B | -77918 | 19882 | 862 | 3961 | -- | -- | -- | -5.09 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1C | -77849 | 19882 | 855 | 3953 | -- | -- | -- | -5.09 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1D | -77918 | 19882 | 855 | 3961 | -- | -- | -- | -5.09 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -77801 | 19894 | 866 | 3948 | -- | -- | -- | -5.09 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1J | -77966 | 19894 | 866 | 3966 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1K | -77801 | 19894 | 850 | 3948 | -- | -- | -- | -5.09 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1L | -77966 | 19894 | 850 | 3966 | -- | -- | -- | -5.10 | 0.24 | 1.00 | 1.30 | 4.81 | 0.54 | 0.12 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -17399 | 405 | -421 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1B | -17400 | 405 | -421 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1C | -17399 | 405 | -424 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1D | -17400 | 405 | -424 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -17399 | 406 | -419 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1J | -17401 | 406 | -419 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1K | -17399 | 406 | -426 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1L | -17401 | 406 | -426 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -94276 | 2191 | -2716 | -480 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1B | -94330 | 2191 | -2716 | -481 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1C | -94276 | 2191 | -2734 | -480 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1D | -94330 | 2191 | -2734 | -481 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -94239 | 2204 | -2704 | -480 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1J | -94367 | 2204 | -2704 | -481 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1K | -94239 | 2204 | -2746 | -480 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1L | -94367 | 2204 | -2746 | -481 | -- | -- | -- | -2.72 | 0.16 | 1.00 | 0.06 | 3.04 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -32336 | 3436 | -538 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1B | -32358 | 3436 | -538 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1C | -32336 | 3436 | -542 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1D | -32358 | 3436 | -542 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -32321 | 3437 | -535 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1J | -32373 | 3437 | -535 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1K | -32321 | 3437 | -545 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1L | -32373 | 3437 | -545 | 0 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.39 | 3.77 | 0.21 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -123958 | 2321 | -5771 | -2849 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1B | -123977 | 2321 | -5771 | -2854 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1C | -123958 | 2321 | -5781 | -2849 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1D | -123977 | 2321 | -5781 | -2854 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -123945 | 2338 | -5764 | -2846 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1J | -123990 | 2338 | -5764 | -2858 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1K | -123945 | 2338 | -5789 | -2846 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1L | -123990 | 2338 | -5789 | -2858 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.09 | 4.43 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -481296 | 13260 | -14934 | -4002 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1B | -481521 | 13260 | -14934 | -3981 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1C | -481296 | 13260 | -14949 | -4002 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1D | -481521 | 13260 | -14949 | -3981 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -481139 | 13310 | -14924 | -4016 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1J | -481677 | 13310 | -14924 | -3967 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1K | -481139 | 13310 | -14959 | -4016 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1L | -481677 | 13310 | -14959 | -3967 | -- | -- | -- | -4.57 | 0.27 | 1.00 | 0.13 | 4.43 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -180407 | 17193 | -1624 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1B | -180430 | 17193 | -1624 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1C | -180407 | 17193 | -1630 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1D | -180430 | 17193 | -1630 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -180391 | 17213 | -1619 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1J | -180446 | 17213 | -1619 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1K | -180391 | 17213 | -1635 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1L | -180446 | 17213 | -1635 | -6403 | -- | -- | -- | -5.60 | 0.33 | 1.00 | 0.53 | 5.20 | 0.21 | 0.04 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -81953 | 2025 | -9425 | -460 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.13 | 5.09 | 0.05 | -- | -- | |
| l | 1B | -81965 | 2025 | -9425 | -461 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.13 | 5.10 | 0.05 | -- | -- | |
| l | 1C | -81953 | 2025 | -9430 | -460 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.13 | 5.09 | 0.05 | -- | -- | |
| l | 1D | -81965 | 2025 | -9430 | -461 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.13 | 5.10 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -81945 | 2034 | -9421 | -459 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.14 | 5.09 | 0.05 | -- | -- | |
| l | 1J | -81973 | 2034 | -9421 | -461 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.14 | 5.10 | 0.05 | -- | -- | |
| l | 1K | -81945 | 2034 | -9434 | -459 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.14 | 5.09 | 0.05 | -- | -- | |
| l | 1L | -81973 | 2034 | -9434 | -461 | -- | -- | -- | -5.46 | 0.32 | 1.00 | 0.14 | 5.10 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -254932 | 1212 | -10787 | -918 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.02 | 4.68 | 0.01 | -- | -- | |
| ½ | 1B | -255083 | 1212 | -10787 | -914 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.02 | 4.69 | 0.01 | -- | -- | |
| ½ | 1C | -254932 | 1212 | -10794 | -918 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.02 | 4.68 | 0.01 | -- | -- | |
| ½ | 1D | -255083 | 1212 | -10794 | -914 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.02 | 4.69 | 0.01 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -254826 | 1242 | -10782 | -921 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.02 | 4.68 | 0.01 | -- | -- | |
| ½ | 1J | -255188 | 1242 | -10782 | -911 | -- | -- | -- | -4.92 | 0.29 | 1.00 | 0.02 | 4.69 | 0.01 | -- | -- | |
| ½ | 1K | -254826 | 1242 | -10799 | -921 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.02 | 4.68 | 0.01 | -- | -- | |
| ½ | 1L | -255188 | 1242 | -10799 | -911 | -- | -- | -- | -4.92 | 0.29 | 1.00 | 0.02 | 4.69 | 0.01 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -112918 | 5845 | 1407 | -1394 | -- | -- | -- | -6.45 | 0.38 | 1.00 | 0.33 | 5.83 | 0.11 | 0.03 | 0.04 | |
| 0 | 1B | -113000 | 5845 | 1407 | -1397 | -- | -- | -- | -6.45 | 0.38 | 1.00 | 0.33 | 5.84 | 0.11 | 0.03 | 0.04 | |
| 0 | 1C | -112918 | 5845 | 1405 | -1394 | -- | -- | -- | -6.45 | 0.38 | 1.00 | 0.33 | 5.83 | 0.11 | 0.03 | 0.04 | |
| 0 | 1D | -113000 | 5845 | 1405 | -1397 | -- | -- | -- | -6.45 | 0.38 | 1.00 | 0.33 | 5.84 | 0.11 | 0.03 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -112861 | 5869 | 1409 | -1391 | -- | -- | -- | -6.44 | 0.38 | 1.00 | 0.34 | 5.83 | 0.11 | 0.03 | 0.04 | |
| 0 | 1J | -113057 | 5869 | 1409 | -1400 | -- | -- | -- | -6.45 | 0.38 | 1.00 | 0.34 | 5.84 | 0.11 | 0.03 | 0.04 | |
| 0 | 1K | -112861 | 5869 | 1403 | -1391 | -- | -- | -- | -6.44 | 0.38 | 1.00 | 0.34 | 5.83 | 0.11 | 0.03 | 0.04 | |
| 0 | 1L | -113057 | 5869 | 1403 | -1400 | -- | -- | -- | -6.45 | 0.38 | 1.00 | 0.34 | 5.84 | 0.11 | 0.03 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -143906 | 1797 | -11809 | -1554 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1B | -143943 | 1797 | -11809 | -1564 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1C | -143906 | 1797 | -11829 | -1554 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1D | -143943 | 1797 | -11829 | -1564 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -143880 | 1820 | -11794 | -1546 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1J | -143969 | 1820 | -11794 | -1572 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1K | -143880 | 1820 | -11844 | -1546 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1L | -143969 | 1820 | -11844 | -1572 | -- | -- | -- | -5.09 | 0.30 | 1.00 | 0.06 | 4.82 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -549965 | 16142 | -15028 | -8326 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1B | -550292 | 16142 | -15028 | -8308 | -- | -- | -- | -5.03 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1C | -549965 | 16142 | -15063 | -8326 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1D | -550292 | 16142 | -15063 | -8308 | -- | -- | -- | -5.03 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -549736 | 16222 | -15004 | -8340 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1J | -550520 | 16222 | -15004 | -8295 | -- | -- | -- | -5.03 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1K | -549736 | 16222 | -15088 | -8340 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1L | -550520 | 16222 | -15088 | -8295 | -- | -- | -- | -5.03 | 0.30 | 1.00 | 0.15 | 4.77 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -201951 | 17680 | 5818 | -831 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.51 | 0.19 | 0.00 | 0.09 | |
| 0 | 1B | -201979 | 17680 | 5818 | -832 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.51 | 0.19 | 0.00 | 0.09 | |
| 0 | 1C | -201951 | 17680 | 5798 | -831 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.51 | 0.19 | 0.00 | 0.09 | |
| 0 | 1D | -201979 | 17680 | 5798 | -832 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.51 | 0.19 | 0.00 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -201932 | 17711 | 5832 | -831 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.51 | 0.19 | 0.00 | 0.09 | |
| 0 | 1J | -201998 | 17711 | 5832 | -832 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.52 | 0.19 | 0.00 | 0.09 | |
| 0 | 1K | -201932 | 17711 | 5784 | -831 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.51 | 0.19 | 0.00 | 0.09 | |
| 0 | 1L | -201998 | 17711 | 5784 | -832 | -- | -- | -- | -6.02 | 0.35 | 1.00 | 0.53 | 5.52 | 0.19 | 0.00 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -92392 | 1477 | -10415 | -628 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1B | -92405 | 1477 | -10415 | -630 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1C | -92392 | 1477 | -10440 | -628 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1D | -92405 | 1477 | -10440 | -630 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -92383 | 1493 | -10398 | -626 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1J | -92414 | 1493 | -10398 | -632 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1K | -92383 | 1493 | -10457 | -626 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1L | -92414 | 1493 | -10457 | -632 | -- | -- | -- | -5.02 | 0.30 | 1.00 | 0.08 | 4.77 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -339486 | 12056 | -10555 | -3431 | -- | -- | -- | -4.86 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1B | -339717 | 12056 | -10555 | -3425 | -- | -- | -- | -4.87 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1C | -339486 | 12056 | -10623 | -3431 | -- | -- | -- | -4.86 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1D | -339717 | 12056 | -10623 | -3425 | -- | -- | -- | -4.87 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -339325 | 12110 | -10507 | -3435 | -- | -- | -- | -4.86 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1J | -339878 | 12110 | -10507 | -3421 | -- | -- | -- | -4.87 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1K | -339325 | 12110 | -10671 | -3435 | -- | -- | -- | -4.86 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1L | -339878 | 12110 | -10671 | -3421 | -- | -- | -- | -4.87 | 0.29 | 1.00 | 0.17 | 4.65 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -114278 | 14081 | 3870 | 2356 | -- | -- | -- | -5.95 | 0.35 | 1.00 | 0.73 | 5.46 | 0.27 | 0.04 | 0.10 | |
| 0 | 1B | -114357 | 14081 | 3870 | 2355 | -- | -- | -- | -5.96 | 0.35 | 1.00 | 0.73 | 5.47 | 0.27 | 0.04 | 0.10 | |
| 0 | 1C | -114278 | 14081 | 3853 | 2356 | -- | -- | -- | -5.95 | 0.35 | 1.00 | 0.73 | 5.46 | 0.27 | 0.04 | 0.10 | |
| 0 | 1D | -114357 | 14081 | 3853 | 2355 | -- | -- | -- | -5.96 | 0.35 | 1.00 | 0.73 | 5.47 | 0.27 | 0.04 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -114223 | 14101 | 3882 | 2357 | -- | -- | -- | -5.95 | 0.35 | 1.00 | 0.73 | 5.46 | 0.27 | 0.04 | 0.10 | |
| 0 | 1J | -114412 | 14101 | 3882 | 2354 | -- | -- | -- | -5.96 | 0.35 | 1.00 | 0.73 | 5.47 | 0.27 | 0.04 | 0.10 | |
| 0 | 1K | -114223 | 14101 | 3841 | 2357 | -- | -- | -- | -5.95 | 0.35 | 1.00 | 0.73 | 5.46 | 0.27 | 0.04 | 0.10 | |
| 0 | 1L | -114412 | 14101 | 3841 | 2354 | -- | -- | -- | -5.96 | 0.35 | 1.00 | 0.73 | 5.47 | 0.27 | 0.04 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -134661 | 2249 | -8853 | -62 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.03 | -- | -- | |
| l | 1B | -134731 | 2249 | -8853 | -75 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.03 | -- | -- | |
| l | 1C | -134661 | 2249 | -9017 | -62 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.03 | -- | -- | |
| l | 1D | -134731 | 2249 | -9017 | -75 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -134612 | 2282 | -8739 | -52 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.04 | -- | -- | |
| l | 1J | -134780 | 2282 | -8739 | -84 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.04 | -- | -- | |
| l | 1K | -134612 | 2282 | -9131 | -52 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.04 | -- | -- | |
| l | 1L | -134780 | 2282 | -9131 | -84 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.08 | 4.54 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -521034 | 16322 | -10413 | -8092 | -- | -- | -- | -4.69 | 0.28 | 1.00 | 0.15 | 4.52 | 0.07 | -- | -- | |
| ½ | 1B | -521449 | 16322 | -10413 | -8092 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.15 | 4.52 | 0.07 | -- | -- | |
| ½ | 1C | -521034 | 16322 | -10649 | -8092 | -- | -- | -- | -4.69 | 0.28 | 1.00 | 0.15 | 4.52 | 0.07 | -- | -- | |
| ½ | 1D | -521449 | 16322 | -10649 | -8092 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.15 | 4.52 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -520744 | 16428 | -10248 | -8091 | -- | -- | -- | -4.69 | 0.28 | 1.00 | 0.15 | 4.52 | 0.07 | -- | -- | |
| ½ | 1J | -521739 | 16428 | -10248 | -8092 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.15 | 4.53 | 0.07 | -- | -- | |
| ½ | 1K | -520744 | 16428 | -10814 | -8091 | -- | -- | -- | -4.69 | 0.28 | 1.00 | 0.15 | 4.52 | 0.07 | -- | -- | |
| ½ | 1L | -521739 | 16428 | -10814 | -8092 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.15 | 4.53 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -192073 | 17189 | 5406 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1B | -192111 | 17189 | 5406 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1C | -192073 | 17189 | 5353 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1D | -192111 | 17189 | 5353 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -192047 | 17224 | 5442 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1J | -192138 | 17224 | 5442 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1K | -192047 | 17224 | 5317 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1L | -192138 | 17224 | 5317 | 6566 | -- | -- | -- | -5.66 | 0.33 | 1.00 | 0.51 | 5.24 | 0.19 | 0.03 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -76867 | 1070 | -3865 | 531 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.12 | 0.03 | -- | -- | |
| l | 1B | -76887 | 1070 | -3865 | 531 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.13 | 0.03 | -- | -- | |
| l | 1C | -76867 | 1070 | -4076 | 531 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.12 | 0.03 | -- | -- | |
| l | 1D | -76887 | 1070 | -4076 | 531 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.13 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -76853 | 1084 | -3718 | 532 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.12 | 0.03 | -- | -- | |
| l | 1J | -76901 | 1084 | -3718 | 530 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.13 | 0.03 | -- | -- | |
| l | 1K | -76853 | 1084 | -4223 | 532 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.12 | 0.03 | -- | -- | |
| l | 1L | -76901 | 1084 | -4223 | 530 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.06 | 4.13 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -290319 | 9746 | -4351 | -426 | -- | -- | -- | -4.13 | 0.24 | 1.00 | 0.14 | 4.10 | 0.07 | -- | -- | |
| ½ | 1B | -290577 | 9746 | -4351 | -446 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.14 | 4.10 | 0.07 | -- | -- | |
| ½ | 1C | -290319 | 9746 | -4573 | -426 | -- | -- | -- | -4.13 | 0.24 | 1.00 | 0.14 | 4.10 | 0.07 | -- | -- | |
| ½ | 1D | -290577 | 9746 | -4573 | -446 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.14 | 4.10 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -290138 | 9820 | -4196 | -412 | -- | -- | -- | -4.13 | 0.24 | 1.00 | 0.14 | 4.10 | 0.07 | -- | -- | |
| ½ | 1J | -290758 | 9820 | -4196 | -459 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.14 | 4.11 | 0.07 | -- | -- | |
| ½ | 1K | -290138 | 9820 | -4728 | -412 | -- | -- | -- | -4.13 | 0.24 | 1.00 | 0.14 | 4.10 | 0.07 | -- | -- | |
| ½ | 1L | -290758 | 9820 | -4728 | -459 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.14 | 4.11 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -105564 | 14283 | 2497 | 4864 | -- | -- | -- | -5.47 | 0.32 | 1.00 | 0.74 | 5.10 | 0.29 | 0.08 | 0.07 | |
| 0 | 1B | -105676 | 14283 | 2497 | 4869 | -- | -- | -- | -5.48 | 0.32 | 1.00 | 0.74 | 5.11 | 0.29 | 0.08 | 0.07 | |
| 0 | 1C | -105564 | 14283 | 2449 | 4864 | -- | -- | -- | -5.47 | 0.32 | 1.00 | 0.74 | 5.10 | 0.29 | 0.08 | 0.07 | |
| 0 | 1D | -105676 | 14283 | 2449 | 4869 | -- | -- | -- | -5.48 | 0.32 | 1.00 | 0.74 | 5.11 | 0.29 | 0.08 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -105485 | 14313 | 2530 | 4860 | -- | -- | -- | -5.47 | 0.32 | 1.00 | 0.74 | 5.10 | 0.29 | 0.08 | 0.07 | |
| 0 | 1J | -105754 | 14313 | 2530 | 4873 | -- | -- | -- | -5.48 | 0.32 | 1.00 | 0.74 | 5.11 | 0.29 | 0.08 | 0.07 | |
| 0 | 1K | -105485 | 14313 | 2416 | 4860 | -- | -- | -- | -5.47 | 0.32 | 1.00 | 0.74 | 5.10 | 0.29 | 0.08 | 0.07 | |
| 0 | 1L | -105754 | 14313 | 2416 | 4873 | -- | -- | -- | -5.48 | 0.32 | 1.00 | 0.74 | 5.11 | 0.29 | 0.08 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -95329 | 3008 | -884 | 1284 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1B | -95367 | 3008 | -884 | 1281 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1C | -95329 | 3008 | -1008 | 1284 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1D | -95367 | 3008 | -1008 | 1281 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -95302 | 3041 | -797 | 1286 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1J | -95393 | 3041 | -797 | 1280 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1K | -95302 | 3041 | -1094 | 1286 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1L | -95393 | 3041 | -1094 | 1280 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.53 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -386429 | 11268 | -1560 | 16171 | -- | -- | -- | -3.49 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1B | -386814 | 11268 | -1560 | 16207 | -- | -- | -- | -3.49 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1C | -386429 | 11268 | -1745 | 16171 | -- | -- | -- | -3.49 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1D | -386814 | 11268 | -1745 | 16207 | -- | -- | -- | -3.49 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -386160 | 11366 | -1431 | 16146 | -- | -- | -- | -3.49 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1J | -387083 | 11366 | -1431 | 16232 | -- | -- | -- | -3.50 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1K | -386160 | 11366 | -1874 | 16146 | -- | -- | -- | -3.49 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1L | -387083 | 11366 | -1874 | 16232 | -- | -- | -- | -3.50 | 0.21 | 1.00 | 0.10 | 3.62 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -162281 | 20489 | 1955 | -4730 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.61 | 0.26 | 0.03 | 0.03 | |
| 0 | 1B | -162383 | 20489 | 1955 | -4749 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.61 | 0.26 | 0.03 | 0.03 | |
| 0 | 1C | -162281 | 20489 | 1887 | -4730 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.61 | 0.26 | 0.03 | 0.03 | |
| 0 | 1D | -162383 | 20489 | 1887 | -4749 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.61 | 0.26 | 0.03 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -162210 | 20548 | 2002 | -4716 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.60 | 0.26 | 0.03 | 0.04 | |
| 0 | 1J | -162454 | 20548 | 2002 | -4762 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.61 | 0.26 | 0.03 | 0.04 | |
| 0 | 1K | -162210 | 20548 | 1839 | -4716 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.60 | 0.26 | 0.03 | 0.03 | |
| 0 | 1L | -162454 | 20548 | 1839 | -4762 | -- | -- | -- | -4.81 | 0.28 | 1.00 | 0.61 | 4.61 | 0.26 | 0.03 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -41354 | 2279 | 13 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.74 | 0.11 | -- | -- | |
| l | 1B | -41375 | 2279 | 13 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.74 | 0.11 | -- | -- | |
| l | 1C | -41354 | 2279 | -26 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.74 | 0.11 | -- | -- | |
| l | 1D | -41375 | 2279 | -26 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.74 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -41340 | 2288 | 41 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.74 | 0.11 | -- | -- | |
| l | 1J | -41389 | 2288 | 41 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.75 | 0.11 | -- | -- | |
| l | 1K | -41340 | 2288 | -53 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.74 | 0.11 | -- | -- | |
| l | 1L | -41389 | 2288 | -53 | 0 | -- -- | -- | -3.66 | 0.22 | 1.00 | 0.20 | 3.75 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -152722 | 13207 | -2000 | 0 | -- -- | -- | -4.50 | 0.26 | 1.00 | 0.39 | 4.38 | 0.18 | -- | -- | |
| ½ | 1B | -152911 | 13207 | -2000 | 0 | -- -- | -- | -4.51 | 0.27 | 1.00 | 0.39 | 4.38 | 0.18 | -- | -- | |
| ½ | 1C | -152722 | 13207 | -2050 | 0 | -- -- | -- | -4.50 | 0.26 | 1.00 | 0.39 | 4.38 | 0.18 | -- | -- | |
| ½ | 1D | -152911 | 13207 | -2050 | 0 | -- -- | -- | -4.51 | 0.27 | 1.00 | 0.39 | 4.38 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -152591 | 13233 | -1965 | 0 | -- -- | -- | -4.50 | 0.26 | 1.00 | 0.39 | 4.37 | 0.18 | -- | -- | |
| ½ | 1J | -153042 | 13233 | -1965 | 0 | -- -- | -- | -4.51 | 0.27 | 1.00 | 0.39 | 4.38 | 0.18 | -- | -- | |
| ½ | 1K | -152591 | 13233 | -2085 | 0 | -- -- | -- | -4.50 | 0.26 | 1.00 | 0.39 | 4.37 | 0.18 | -- | -- | |
| ½ | 1L | -153042 | 13233 | -2085 | 0 | -- -- | -- | -4.51 | 0.27 | 1.00 | 0.39 | 4.38 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -55299 | 1768 | 1990 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1B | -55316 | 1768 | 1990 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1C | -55299 | 1768 | 1947 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1D | -55316 | 1768 | 1947 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -55287 | 1783 | 2020 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1J | -55328 | 1783 | 2020 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1K | -55287 | 1783 | 1918 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1L | -55328 | 1783 | 1918 | 0 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.16 | 4.67 | 0.07 | 0.00 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -47347 | 703 | -297 | -879 | -- -- | -- | -3.12 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1B | -47363 | 703 | -297 | -875 | -- -- | -- | -3.13 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1C | -47347 | 703 | -305 | -879 | -- -- | -- | -3.12 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1D | -47363 | 703 | -305 | -875 | -- -- | -- | -3.13 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -47337 | 710 | -291 | -882 | -- -- | -- | -3.12 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1J | -47373 | 710 | -291 | -873 | -- -- | -- | -3.13 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1K | -47337 | 710 | -310 | -882 | -- -- | -- | -3.12 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1L | -47373 | 710 | -310 | -873 | -- -- | -- | -3.13 | 0.27 | 1.00 | 0.05 | 3.00 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -155983 | 15360 | -702 | -3176 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1B | -156005 | 15360 | -702 | -3171 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1C | -155983 | 15360 | -720 | -3176 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1D | -156005 | 15360 | -720 | -3171 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -155967 | 15378 | -690 | -3179 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1J | -156021 | 15378 | -690 | -3168 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1K | -155967 | 15378 | -732 | -3179 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1L | -156021 | 15378 | -732 | -3168 | -- -- | -- | -3.43 | 0.30 | 1.00 | 0.34 | 3.23 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -56098 | 6512 | -432 | -1975 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1B | -56106 | 6512 | -432 | -1975 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1C | -56098 | 6512 | -434 | -1975 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1D | -56106 | 6512 | -434 | -1975 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -56092 | 6518 | -431 | -1975 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1J | -56111 | 6518 | -431 | -1974 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1K | -56092 | 6518 | -436 | -1975 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1L | -56111 | 6518 | -436 | -1974 | -- -- | -- | -3.70 | 0.32 | 1.00 | 0.43 | 3.44 | 0.25 | 0.07 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -12350 | 64 | -0 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1B | -12360 | 64 | -0 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1C | -12350 | 64 | -1 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1D | -12360 | 64 | -1 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12344 | 66 | 1 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1J | -12366 | 66 | 1 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1K | -12344 | 66 | -2 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1L | -12366 | 66 | -2 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.01 | 1.99 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -70345 | 9967 | -2354 | 0 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1B | -70395 | 9967 | -2354 | 0 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1C | -70345 | 9967 | -2358 | 0 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1D | -70395 | 9967 | -2358 | 0 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -70311 | 9978 | -2351 | 0 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1J | -70429 | 9978 | -2351 | 0 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1K | -70311 | 9978 | -2361 | 0 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1L | -70429 | 9978 | -2361 | 0 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.48 | 3.19 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20810 | 1972 | -462 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1B | -20813 | 1972 | -462 | 0 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1C | -20810 | 1972 | -462 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1D | -20813 | 1972 | -462 | 0 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20808 | 1975 | -461 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1J | -20815 | 1975 | -461 | 0 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1K | -20808 | 1975 | -463 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1L | -20815 | 1975 | -463 | 0 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.28 | 2.91 | 0.20 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -45274 | 8066 | -4434 | -1516 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1B | -45305 | 8066 | -4434 | -1516 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1C | -45274 | 8066 | -4448 | -1516 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1D | -45305 | 8066 | -4448 | -1516 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -45253 | 8086 | -4424 | -1517 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1J | -45327 | 8086 | -4424 | -1515 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1K | -45253 | 8086 | -4458 | -1517 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1L | -45327 | 8086 | -4458 | -1515 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.50 | 2.75 | 0.36 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -204543 | 2048 | -11826 | -382 | -- | -- | -- | -4.15 | 0.36 | 1.00 | 0.04 | 3.77 | 0.02 | -- | -- | |
| ½ | 1B | -204739 | 2048 | -11826 | -387 | -- | -- | -- | -4.15 | 0.36 | 1.00 | 0.04 | 3.78 | 0.02 | -- | -- | |
| ½ | 1C | -204543 | 2048 | -11838 | -382 | -- | -- | -- | -4.15 | 0.36 | 1.00 | 0.04 | 3.77 | 0.02 | -- | -- | |
| ½ | 1D | -204739 | 2048 | -11838 | -387 | -- | -- | -- | -4.15 | 0.36 | 1.00 | 0.04 | 3.78 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -204406 | 2100 | -11818 | -379 | -- | -- | -- | -4.15 | 0.36 | 1.00 | 0.04 | 3.77 | 0.02 | -- | -- | |
| ½ | 1J | -204875 | 2100 | -11818 | -391 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.04 | 3.78 | 0.02 | -- | -- | |
| ½ | 1K | -204406 | 2100 | -11847 | -379 | -- | -- | -- | -4.15 | 0.36 | 1.00 | 0.04 | 3.77 | 0.02 | -- | -- | |
| ½ | 1L | -204875 | 2100 | -11847 | -391 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.04 | 3.78 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48872 | 2170 | -1910 | -51 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1B | -48892 | 2170 | -1910 | -53 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1C | -48872 | 2170 | -1913 | -51 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1D | -48892 | 2170 | -1913 | -53 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48858 | 2185 | -1908 | -49 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1J | -48906 | 2185 | -1908 | -55 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1K | -48858 | 2185 | -1915 | -49 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1L | -48906 | 2185 | -1915 | -55 | -- | -- | -- | -3.01 | 0.26 | 1.00 | 0.13 | 2.92 | 0.09 | 0.00 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -45985 | 8978 | -4416 | -859 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1B | -46035 | 8978 | -4416 | -858 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1C | -45985 | 8978 | -4459 | -859 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1D | -46035 | 8978 | -4459 | -858 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -45950 | 9005 | -4385 | -859 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1J | -46070 | 9005 | -4385 | -857 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1K | -45950 | 9005 | -4490 | -859 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1L | -46070 | 9005 | -4490 | -857 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.52 | 2.66 | 0.39 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -278349 | 12455 | -13462 | -902 | -- | -- | -- | -4.30 | 0.37 | 1.00 | 0.19 | 3.88 | 0.10 | -- | -- | |
| ½ | 1B | -278685 | 12455 | -13462 | -909 | -- | -- | -- | -4.30 | 0.37 | 1.00 | 0.19 | 3.89 | 0.10 | -- | -- | |
| ½ | 1C | -278349 | 12455 | -13503 | -902 | -- | -- | -- | -4.30 | 0.37 | 1.00 | 0.19 | 3.88 | 0.10 | -- | -- | |
| ½ | 1D | -278685 | 12455 | -13503 | -909 | -- | -- | -- | -4.30 | 0.37 | 1.00 | 0.19 | 3.89 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -278114 | 12516 | -13433 | -896 | -- | -- | -- | -4.29 | 0.37 | 1.00 | 0.19 | 3.88 | 0.10 | -- | -- | |
| ½ | 1J | -278920 | 12516 | -13433 | -914 | -- | -- | -- | -4.31 | 0.37 | 1.00 | 0.19 | 3.89 | 0.10 | -- | -- | |
| ½ | 1K | -278114 | 12516 | -13532 | -896 | -- | -- | -- | -4.29 | 0.37 | 1.00 | 0.19 | 3.88 | 0.10 | -- | -- | |
| ½ | 1L | -278920 | 12516 | -13532 | -914 | -- | -- | -- | -4.31 | 0.37 | 1.00 | 0.19 | 3.89 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -68303 | 4091 | -819 | 5241 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.24 | 3.63 | 0.13 | 0.16 | 0.04 | |
| 0 | 1B | -68383 | 4091 | -819 | 5259 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.24 | 3.63 | 0.13 | 0.16 | 0.04 | |
| 0 | 1C | -68303 | 4091 | -832 | 5241 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.24 | 3.63 | 0.13 | 0.16 | 0.04 | |
| 0 | 1D | -68383 | 4091 | -832 | 5259 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.24 | 3.63 | 0.13 | 0.16 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -68248 | 4109 | -810 | 5229 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.24 | 3.62 | 0.13 | 0.16 | 0.04 | |
| 0 | 1J | -68439 | 4109 | -810 | 5271 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.24 | 3.63 | 0.13 | 0.16 | 0.04 | |
| 0 | 1K | -68248 | 4109 | -841 | 5229 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.24 | 3.62 | 0.13 | 0.16 | 0.04 | |
| 0 | 1L | -68439 | 4109 | -841 | 5271 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.24 | 3.63 | 0.13 | 0.16 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -85454 | 2859 | 1550 | 292 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.09 | 2.79 | 0.07 | -- | -- | |
| l | 1B | -85600 | 2859 | 1550 | 279 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.09 | 2.79 | 0.07 | -- | -- | |
| l | 1C | -85454 | 2859 | 1433 | 292 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.09 | 2.79 | 0.07 | -- | -- | |
| l | 1D | -85600 | 2859 | 1433 | 279 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.09 | 2.79 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -85352 | 2871 | 1631 | 301 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.10 | 2.78 | 0.07 | -- | -- | |
| l | 1J | -85703 | 2871 | 1631 | 271 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.10 | 2.79 | 0.07 | -- | -- | |
| l | 1K | -85352 | 2871 | 1352 | 301 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.10 | 2.78 | 0.07 | -- | -- | |
| l | 1L | -85703 | 2871 | 1352 | 271 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.10 | 2.79 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -420051 | 53766 | -6833 | 15626 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.74 | 0.28 | -- | -- | |
| ½ | 1B | -420384 | 53766 | -6833 | 15540 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.74 | 0.28 | -- | -- | |
| ½ | 1C | -420051 | 53766 | -7311 | 15626 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.74 | 0.28 | -- | -- | |
| ½ | 1D | -420384 | 53766 | -7311 | 15540 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.74 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -419819 | 53908 | -6499 | 15686 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.74 | 0.28 | -- | -- | |
| ½ | 1J | -420616 | 53908 | -6499 | 15480 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.75 | 0.28 | -- | -- | |
| ½ | 1K | -419819 | 53908 | -7644 | 15686 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.74 | 0.28 | -- | -- | |
| ½ | 1L | -420616 | 53908 | -7644 | 15480 | -- | -- | -- | -4.11 | 0.36 | 1.00 | 0.53 | 3.75 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -126830 | 23362 | -393 | -11108 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.77 | 3.81 | 0.41 | 0.11 | 0.01 | |
| 0 | 1B | -126954 | 23362 | -393 | -11207 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.77 | 3.82 | 0.41 | 0.11 | 0.01 | |
| 0 | 1C | -126830 | 23362 | -487 | -11108 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.77 | 3.81 | 0.41 | 0.11 | 0.01 | |
| 0 | 1D | -126954 | 23362 | -487 | -11207 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.77 | 3.82 | 0.41 | 0.11 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -126742 | 23422 | -327 | -11039 | -- | -- | -- | -4.20 | 0.37 | 1.00 | 0.78 | 3.81 | 0.41 | 0.11 | 0.01 | |
| 0 | 1J | -127042 | 23422 | -327 | -11275 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.78 | 3.82 | 0.41 | 0.11 | 0.01 | |
| 0 | 1K | -126742 | 23422 | -553 | -11039 | -- | -- | -- | -4.20 | 0.37 | 1.00 | 0.78 | 3.81 | 0.41 | 0.11 | 0.01 | |
| 0 | 1L | -127042 | 23422 | -553 | -11275 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.78 | 3.82 | 0.41 | 0.11 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -35313 | 10081 | -828 | 0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.64 | 2.68 | 0.48 | -- | -- | |
| l | 1B | -35434 | 10081 | -828 | 0 | -- | -- | -- | -2.25 | 0.13 | 1.00 | 0.64 | 2.69 | 0.48 | -- | -- | |
| l | 1C | -35313 | 10081 | -1177 | 0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.64 | 2.68 | 0.48 | -- | -- | |
| l | 1D | -35434 | 10081 | -1177 | 0 | -- | -- | -- | -2.25 | 0.13 | 1.00 | 0.64 | 2.69 | 0.48 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -35227 | 10098 | -585 | 0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.64 | 2.68 | 0.48 | -- | -- | |
| l | 1J | -35519 | 10098 | -585 | 0 | -- | -- | -- | -2.26 | 0.13 | 1.00 | 0.64 | 2.69 | 0.48 | -- | -- | |
| l | 1K | -35227 | 10098 | -1421 | 0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.64 | 2.68 | 0.48 | -- | -- | |
| l | 1L | -35519 | 10098 | -1421 | 0 | -- | -- | -- | -2.26 | 0.13 | 1.00 | 0.64 | 2.69 | 0.48 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -231145 | 16116 | -6176 | -1773 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.27 | 3.94 | 0.14 | -- | -- | |
| ½ | 1B | -231509 | 16116 | -6176 | -1778 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.27 | 3.94 | 0.14 | -- | -- | |
| ½ | 1C | -231145 | 16116 | -6946 | -1773 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.27 | 3.94 | 0.14 | -- | -- | |
| ½ | 1D | -231509 | 16116 | -6946 | -1778 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.27 | 3.94 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -230891 | 16137 | -5639 | -1769 | -- | -- | -- | -3.91 | 0.23 | 1.00 | 0.27 | 3.93 | 0.14 | -- | -- | |
| ½ | 1J | -231762 | 16137 | -5639 | -1782 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.27 | 3.94 | 0.14 | -- | -- | |
| ½ | 1K | -230891 | 16137 | -7483 | -1769 | -- | -- | -- | -3.91 | 0.23 | 1.00 | 0.27 | 3.93 | 0.14 | -- | -- | |
| ½ | 1L | -231762 | 16137 | -7483 | -1782 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.27 | 3.94 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -46985 | 7606 | -2114 | 1251 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.09 | |
| 0 | 1B | -47047 | 7606 | -2114 | 1257 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.09 | |
| 0 | 1C | -46985 | 7606 | -2213 | 1251 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.09 | |
| 0 | 1D | -47047 | 7606 | -2213 | 1257 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46942 | 7621 | -2044 | 1247 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.09 | |
| 0 | 1J | -47090 | 7621 | -2044 | 1260 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.09 | |
| 0 | 1K | -46942 | 7621 | -2282 | 1247 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.10 | |
| 0 | 1L | -47090 | 7621 | -2282 | 1260 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | 0.05 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -114066 | 2652 | -1456 | 6782 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1B | -114132 | 2652 | -1456 | 6792 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1C | -114066 | 2652 | -1812 | 6782 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1D | -114132 | 2652 | -1812 | 6792 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -114020 | 2672 | -1207 | 6774 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1J | -114177 | 2672 | -1207 | 6800 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1K | -114020 | 2672 | -2061 | 6774 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1L | -114177 | 2672 | -2061 | 6800 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.07 | 2.83 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -492441 | 32846 | -12406 | 30165 | -- | -- | -- | -3.76 | 0.33 | 1.00 | 0.25 | 3.48 | 0.14 | -- | -- | |
| ½ | 1B | -492732 | 32846 | -12406 | 30071 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.25 | 3.49 | 0.14 | -- | -- | |
| ½ | 1C | -492441 | 32846 | -13144 | 30165 | -- | -- | -- | -3.76 | 0.33 | 1.00 | 0.25 | 3.48 | 0.14 | -- | -- | |
| ½ | 1D | -492732 | 32846 | -13144 | 30071 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.25 | 3.49 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -492238 | 32890 | -11892 | 30232 | -- | -- | -- | -3.76 | 0.33 | 1.00 | 0.25 | 3.48 | 0.14 | -- | -- | |
| ½ | 1J | -492935 | 32890 | -11892 | 30004 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.25 | 3.49 | 0.14 | -- | -- | |
| ½ | 1K | -492238 | 32890 | -13658 | 30232 | -- | -- | -- | -3.76 | 0.33 | 1.00 | 0.25 | 3.48 | 0.14 | -- | -- | |
| ½ | 1L | -492935 | 32890 | -13658 | 30004 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.25 | 3.49 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -137822 | 10584 | -4721 | 10232 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1B | -137893 | 10584 | -4721 | 10238 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1C | -137822 | 10584 | -4831 | 10232 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1D | -137893 | 10584 | -4831 | 10238 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -137773 | 10598 | -4645 | 10227 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1J | -137942 | 10598 | -4645 | 10242 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1K | -137773 | 10598 | -4907 | 10227 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1L | -137942 | 10598 | -4907 | 10242 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.27 | 3.27 | 0.16 | 0.06 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -20866 | 935 | -526 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.39 | 0.07 | -- | -- | |
| l | 1B | -20868 | 935 | -526 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.40 | 0.07 | -- | -- | |
| l | 1C | -20866 | 935 | -546 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.39 | 0.07 | -- | -- | |
| l | 1D | -20868 | 935 | -546 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.40 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -20865 | 939 | -512 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.39 | 0.07 | -- | -- | |
| l | 1J | -20869 | 939 | -512 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.40 | 0.07 | -- | -- | |
| l | 1K | -20865 | 939 | -560 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.39 | 0.07 | -- | -- | |
| l | 1L | -20869 | 939 | -560 | -0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.08 | 2.40 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -148905 | 4650 | -3890 | 0 | -- | -- | -- | -4.42 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1B | -148932 | 4650 | -3890 | 0 | -- | -- | -- | -4.43 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1C | -148905 | 4650 | -3976 | 0 | -- | -- | -- | -4.42 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1D | -148932 | 4650 | -3976 | 0 | -- | -- | -- | -4.43 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -148886 | 4655 | -3829 | 0 | -- | -- | -- | -4.42 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1J | -148951 | 4655 | -3829 | 0 | -- | -- | -- | -4.43 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1K | -148886 | 4655 | -4037 | 0 | -- | -- | -- | -4.42 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1L | -148951 | 4655 | -4037 | 0 | -- | -- | -- | -4.43 | 0.26 | 1.00 | 0.14 | 4.32 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -43527 | 1608 | -655 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.03 | |
| 0 | 1B | -43531 | 1608 | -655 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.03 | |
| 0 | 1C | -43527 | 1608 | -676 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.04 | |
| 0 | 1D | -43531 | 1608 | -676 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -43525 | 1612 | -641 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.03 | |
| 0 | 1J | -43533 | 1612 | -641 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.03 | |
| 0 | 1K | -43525 | 1612 | -690 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.04 | |
| 0 | 1L | -43533 | 1612 | -690 | -0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.14 | 3.91 | 0.07 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -88951 | 4708 | -2249 | 9720 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1B | -88975 | 4708 | -2249 | 9721 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1C | -88951 | 4708 | -2281 | 9720 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1D | -88975 | 4708 | -2281 | 9721 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -88935 | 4712 | -2226 | 9719 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1J | -88992 | 4712 | -2226 | 9722 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1K | -88935 | 4712 | -2304 | 9719 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1L | -88992 | 4712 | -2304 | 9722 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.16 | 3.22 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -427504 | 23170 | -1893 | 2578 | -- | -- | -- | -4.10 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1B | -427612 | 23170 | -1893 | 2602 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1C | -427504 | 23170 | -2018 | 2578 | -- | -- | -- | -4.10 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1D | -427612 | 23170 | -2018 | 2602 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -427430 | 23196 | -1806 | 2561 | -- | -- | -- | -4.10 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1J | -427686 | 23196 | -1806 | 2619 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1K | -427430 | 23196 | -2105 | 2561 | -- | -- | -- | -4.10 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1L | -427686 | 23196 | -2105 | 2619 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.22 | 4.08 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -139105 | 10679 | 122 | -4989 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1B | -139129 | 10679 | 122 | -4994 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1C | -139105 | 10679 | 79 | -4989 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1D | -139129 | 10679 | 79 | -4994 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -139089 | 10684 | 152 | -4985 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1J | -139146 | 10684 | 152 | -4997 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1K | -139089 | 10684 | 50 | -4985 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1L | -139146 | 10684 | 50 | -4997 | -- | -- | -- | -4.61 | 0.27 | 1.00 | 0.35 | 4.46 | 0.16 | 0.04 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -13470 | 889 | 57 | -0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.15 | 2.68 | 0.11 | -- | -- | |
| l | 1B | -13491 | 889 | 57 | -0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.15 | 2.68 | 0.11 | -- | -- | |
| l | 1C | -13470 | 889 | 56 | -0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.15 | 2.68 | 0.11 | -- | -- | |
| l | 1D | -13491 | 889 | 56 | -0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.15 | 2.68 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -13455 | 889 | 58 | -0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.15 | 2.68 | 0.11 | -- | -- | |
| l | 1J | -13506 | 889 | 58 | -0 | -- | -- | -- | -2.25 | 0.13 | 1.00 | 0.15 | 2.69 | 0.11 | -- | -- | |
| l | 1K | -13455 | 889 | 55 | -0 | -- | -- | -- | -2.24 | 0.13 | 1.00 | 0.15 | 2.68 | 0.11 | -- | -- | |
| l | 1L | -13506 | 889 | 55 | -0 | -- | -- | -- | -2.25 | 0.13 | 1.00 | 0.15 | 2.69 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -80273 | 2200 | -58 | -0 | -- | -- | -- | -4.45 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1B | -80328 | 2200 | -58 | -0 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1C | -80273 | 2200 | -64 | -0 | -- | -- | -- | -4.45 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1D | -80328 | 2200 | -64 | -0 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -80235 | 2211 | -54 | -0 | -- | -- | -- | -4.45 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1J | -80366 | 2211 | -54 | -0 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1K | -80235 | 2211 | -68 | -0 | -- | -- | -- | -4.45 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1L | -80366 | 2211 | -68 | -0 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.12 | 4.34 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -32352 | 2795 | 314 | -0 | -- | -- | -- | -5.38 | 0.32 | 1.00 | 0.47 | 5.04 | 0.18 | 0.00 | 0.04 | |
| 0 | 1B | -32412 | 2795 | 314 | -0 | -- | -- | -- | -5.39 | 0.32 | 1.00 | 0.47 | 5.04 | 0.18 | 0.00 | 0.04 | |
| 0 | 1C | -32352 | 2795 | 309 | -0 | -- | -- | -- | -5.38 | 0.32 | 1.00 | 0.47 | 5.04 | 0.18 | 0.00 | 0.04 | |
| 0 | 1D | -32412 | 2795 | 309 | -0 | -- | -- | -- | -5.39 | 0.32 | 1.00 | 0.47 | 5.04 | 0.18 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -32310 | 2806 | 317 | -0 | -- | -- | -- | -5.38 | 0.32 | 1.00 | 0.47 | 5.03 | 0.19 | 0.00 | 0.04 | |
| 0 | 1J | -32454 | 2806 | 317 | -0 | -- | -- | -- | -5.40 | 0.32 | 1.00 | 0.47 | 5.05 | 0.18 | 0.00 | 0.04 | |
| 0 | 1K | -32310 | 2806 | 305 | -0 | -- | -- | -- | -5.38 | 0.32 | 1.00 | 0.47 | 5.03 | 0.19 | 0.00 | 0.04 | |
| 0 | 1L | -32454 | 2806 | 305 | -0 | -- | -- | -- | -5.40 | 0.32 | 1.00 | 0.47 | 5.05 | 0.18 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -25876 | 2262 | 72 | 0 | -- -- | -- | -2.14 | 0.13 | 1.00 | 0.19 | 2.60 | 0.14 | -- | -- | |
| l | 1B | -25955 | 2262 | 72 | 0 | -- -- | -- | -2.14 | 0.13 | 1.00 | 0.19 | 2.61 | 0.14 | -- | -- | |
| l | 1C | -25876 | 2262 | 71 | 0 | -- -- | -- | -2.14 | 0.13 | 1.00 | 0.19 | 2.60 | 0.14 | -- | -- | |
| l | 1D | -25955 | 2262 | 71 | 0 | -- -- | -- | -2.14 | 0.13 | 1.00 | 0.19 | 2.61 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -25821 | 2283 | 72 | 0 | -- -- | -- | -2.13 | 0.13 | 1.00 | 0.19 | 2.60 | 0.15 | -- | -- | |
| l | 1J | -26011 | 2283 | 72 | 0 | -- -- | -- | -2.15 | 0.13 | 1.00 | 0.19 | 2.61 | 0.14 | -- | -- | |
| l | 1K | -25821 | 2283 | 70 | 0 | -- -- | -- | -2.13 | 0.13 | 1.00 | 0.19 | 2.60 | 0.15 | -- | -- | |
| l | 1L | -26011 | 2283 | 70 | 0 | -- -- | -- | -2.15 | 0.13 | 1.00 | 0.19 | 2.61 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -294906 | 8971 | -175 | 2653 | -- -- | -- | -4.79 | 0.28 | 1.00 | 0.15 | 4.59 | 0.06 | -- | -- | |
| ½ | 1B | -295280 | 8971 | -175 | 2636 | -- -- | -- | -4.80 | 0.28 | 1.00 | 0.15 | 4.60 | 0.06 | -- | -- | |
| ½ | 1C | -294906 | 8971 | -192 | 2653 | -- -- | -- | -4.79 | 0.28 | 1.00 | 0.15 | 4.59 | 0.06 | -- | -- | |
| ½ | 1D | -295280 | 8971 | -192 | 2636 | -- -- | -- | -4.80 | 0.28 | 1.00 | 0.15 | 4.60 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -294644 | 9136 | -163 | 2665 | -- -- | -- | -4.79 | 0.28 | 1.00 | 0.15 | 4.59 | 0.06 | -- | -- | |
| ½ | 1J | -295542 | 9136 | -163 | 2624 | -- -- | -- | -4.80 | 0.28 | 1.00 | 0.15 | 4.60 | 0.06 | -- | -- | |
| ½ | 1K | -294644 | 9136 | -205 | 2665 | -- -- | -- | -4.79 | 0.28 | 1.00 | 0.15 | 4.59 | 0.06 | -- | -- | |
| ½ | 1L | -295542 | 9136 | -205 | 2624 | -- -- | -- | -4.80 | 0.28 | 1.00 | 0.15 | 4.60 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -67198 | 5837 | 453 | -631 | -- -- | -- | -5.55 | 0.33 | 1.00 | 0.48 | 5.16 | 0.19 | 0.02 | 0.03 | |
| 0 | 1B | -67266 | 5837 | 453 | -649 | -- -- | -- | -5.55 | 0.33 | 1.00 | 0.48 | 5.17 | 0.19 | 0.02 | 0.03 | |
| 0 | 1C | -67198 | 5837 | 447 | -631 | -- -- | -- | -5.55 | 0.33 | 1.00 | 0.48 | 5.16 | 0.19 | 0.02 | 0.03 | |
| 0 | 1D | -67266 | 5837 | 447 | -649 | -- -- | -- | -5.55 | 0.33 | 1.00 | 0.48 | 5.17 | 0.19 | 0.02 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -67150 | 5847 | 457 | -619 | -- -- | -- | -5.54 | 0.33 | 1.00 | 0.48 | 5.16 | 0.19 | 0.02 | 0.03 | |
| 0 | 1J | -67313 | 5847 | 457 | -661 | -- -- | -- | -5.56 | 0.33 | 1.00 | 0.48 | 5.17 | 0.19 | 0.02 | 0.03 | |
| 0 | 1K | -67150 | 5847 | 443 | -619 | -- -- | -- | -5.54 | 0.33 | 1.00 | 0.48 | 5.16 | 0.19 | 0.02 | 0.03 | |
| 0 | 1L | -67313 | 5847 | 443 | -661 | -- -- | -- | -5.56 | 0.33 | 1.00 | 0.48 | 5.17 | 0.19 | 0.02 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -24050 | 113 | -93 | 0 | -- -- | -- | -2.22 | 0.13 | 1.00 | 0.01 | 2.67 | 0.01 | -- | -- | |
| l | 1B | -24118 | 113 | -93 | 0 | -- -- | -- | -2.23 | 0.13 | 1.00 | 0.01 | 2.67 | 0.01 | -- | -- | |
| l | 1C | -24050 | 113 | -94 | 0 | -- -- | -- | -2.22 | 0.13 | 1.00 | 0.01 | 2.67 | 0.01 | -- | -- | |
| l | 1D | -24118 | 113 | -94 | 0 | -- -- | -- | -2.23 | 0.13 | 1.00 | 0.01 | 2.67 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -24004 | 119 | -93 | 0 | -- -- | -- | -2.22 | 0.13 | 1.00 | 0.01 | 2.66 | 0.01 | -- | -- | |
| l | 1J | -24164 | 119 | -93 | 0 | -- -- | -- | -2.23 | 0.13 | 1.00 | 0.01 | 2.68 | 0.01 | -- | -- | |
| l | 1K | -24004 | 119 | -95 | 0 | -- -- | -- | -2.22 | 0.13 | 1.00 | 0.01 | 2.66 | 0.01 | -- | -- | |
| l | 1L | -24164 | 119 | -95 | 0 | -- -- | -- | -2.23 | 0.13 | 1.00 | 0.01 | 2.68 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -223461 | 6129 | 55 | 762 | -- -- | -- | -4.74 | 0.28 | 1.00 | 0.13 | 4.56 | 0.06 | -- | -- | |
| ½ | 1B | -223704 | 6129 | 55 | 761 | -- -- | -- | -4.75 | 0.28 | 1.00 | 0.13 | 4.56 | 0.06 | -- | -- | |
| ½ | 1C | -223461 | 6129 | 49 | 762 | -- -- | -- | -4.74 | 0.28 | 1.00 | 0.13 | 4.56 | 0.06 | -- | -- | |
| ½ | 1D | -223704 | 6129 | 49 | 761 | -- -- | -- | -4.75 | 0.28 | 1.00 | 0.13 | 4.56 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -223292 | 6225 | 59 | 763 | -- -- | -- | -4.74 | 0.28 | 1.00 | 0.13 | 4.55 | 0.06 | -- | -- | |
| ½ | 1J | -223874 | 6225 | 59 | 759 | -- -- | -- | -4.75 | 0.28 | 1.00 | 0.13 | 4.56 | 0.06 | -- | -- | |
| ½ | 1K | -223292 | 6225 | 45 | 763 | -- -- | -- | -4.74 | 0.28 | 1.00 | 0.13 | 4.55 | 0.06 | -- | -- | |
| ½ | 1L | -223874 | 6225 | 45 | 759 | -- -- | -- | -4.75 | 0.28 | 1.00 | 0.13 | 4.56 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -67414 | 427 | -215 | 258 | -- -- | -- | -5.51 | 0.32 | 1.00 | 0.03 | 5.13 | 0.01 | 0.01 | 0.01 | |
| 0 | 1B | -67480 | 427 | -215 | 260 | -- -- | -- | -5.51 | 0.32 | 1.00 | 0.03 | 5.14 | 0.01 | 0.01 | 0.01 | |
| 0 | 1C | -67414 | 427 | -217 | 258 | -- -- | -- | -5.51 | 0.32 | 1.00 | 0.03 | 5.13 | 0.01 | 0.01 | 0.01 | |
| 0 | 1D | -67480 | 427 | -217 | 260 | -- -- | -- | -5.51 | 0.32 | 1.00 | 0.03 | 5.14 | 0.01 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -67369 | 441 | -214 | 256 | -- -- | -- | -5.50 | 0.32 | 1.00 | 0.04 | 5.13 | 0.01 | 0.01 | 0.01 | |
| 0 | 1J | -67526 | 441 | -214 | 262 | -- -- | -- | -5.52 | 0.32 | 1.00 | 0.04 | 5.14 | 0.01 | 0.01 | 0.01 | |
| 0 | 1K | -67369 | 441 | -218 | 256 | -- -- | -- | -5.50 | 0.32 | 1.00 | 0.04 | 5.13 | 0.01 | 0.01 | 0.01 | |
| 0 | 1L | -67526 | 441 | -218 | 262 | -- -- | -- | -5.52 | 0.32 | 1.00 | 0.04 | 5.14 | 0.01 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -28925 | 5294 | 145 | -1102 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1B | -28972 | 5294 | 145 | -1106 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1C | -28925 | 5294 | 141 | -1102 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1D | -28972 | 5294 | 141 | -1106 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -28893 | 5299 | 148 | -1099 | -- | -- | -- | -2.62 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1J | -29004 | 5299 | 148 | -1109 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1K | -28893 | 5299 | 138 | -1099 | -- | -- | -- | -2.62 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1L | -29004 | 5299 | 138 | -1109 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.48 | 2.97 | 0.32 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -152358 | 18462 | 223 | 63 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.51 | 4.18 | 0.25 | -- | -- | |
| ½ | 1B | -152517 | 18462 | 223 | 57 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.51 | 4.18 | 0.25 | -- | -- | |
| ½ | 1C | -152358 | 18462 | 214 | 63 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.51 | 4.18 | 0.25 | -- | -- | |
| ½ | 1D | -152517 | 18462 | 214 | 57 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.51 | 4.18 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -152247 | 18530 | 229 | 67 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.52 | 4.18 | 0.25 | -- | -- | |
| ½ | 1J | -152628 | 18530 | 229 | 53 | -- | -- | -- | -4.25 | 0.25 | 1.00 | 0.52 | 4.18 | 0.25 | -- | -- | |
| ½ | 1K | -152247 | 18530 | 208 | 67 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.52 | 4.18 | 0.25 | -- | -- | |
| ½ | 1L | -152628 | 18530 | 208 | 53 | -- | -- | -- | -4.25 | 0.25 | 1.00 | 0.52 | 4.18 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -44650 | 3752 | -99 | -689 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.36 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1B | -44684 | 3752 | -99 | -689 | -- | -- | -- | -4.34 | 0.26 | 1.00 | 0.36 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1C | -44650 | 3752 | -101 | -689 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.36 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1D | -44684 | 3752 | -101 | -689 | -- | -- | -- | -4.34 | 0.26 | 1.00 | 0.36 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -44627 | 3773 | -97 | -689 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.37 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1J | -44707 | 3773 | -97 | -689 | -- | -- | -- | -4.34 | 0.26 | 1.00 | 0.37 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1K | -44627 | 3773 | -102 | -689 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.37 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1L | -44707 | 3773 | -102 | -689 | -- | -- | -- | -4.34 | 0.26 | 1.00 | 0.37 | 4.25 | 0.17 | 0.04 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -41167 | 5070 | -1432 | 1687 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.39 | 3.34 | 0.23 | -- | -- | |
| l | 1B | -41192 | 5070 | -1432 | 1689 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.39 | 3.35 | 0.23 | -- | -- | |
| l | 1C | -41167 | 5070 | -1433 | 1687 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.39 | 3.34 | 0.23 | -- | -- | |
| l | 1D | -41192 | 5070 | -1433 | 1689 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.39 | 3.35 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -41149 | 5096 | -1431 | 1685 | -- -- | -- | -3.12 | 0.18 | 1.00 | 0.39 | 3.34 | 0.23 | -- | -- | |
| l | 1J | -41210 | 5096 | -1431 | 1690 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.39 | 3.35 | 0.23 | -- | -- | |
| l | 1K | -41149 | 5096 | -1434 | 1685 | -- -- | -- | -3.12 | 0.18 | 1.00 | 0.39 | 3.34 | 0.23 | -- | -- | |
| l | 1L | -41210 | 5096 | -1434 | 1690 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.39 | 3.35 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -176504 | 6755 | -3376 | -425 | -- -- | -- | -4.68 | 0.28 | 1.00 | 0.18 | 4.51 | 0.08 | -- | -- | |
| ½ | 1B | -176694 | 6755 | -3376 | -423 | -- -- | -- | -4.68 | 0.28 | 1.00 | 0.18 | 4.51 | 0.08 | -- | -- | |
| ½ | 1C | -176504 | 6755 | -3378 | -425 | -- -- | -- | -4.68 | 0.28 | 1.00 | 0.18 | 4.51 | 0.08 | -- | -- | |
| ½ | 1D | -176694 | 6755 | -3378 | -423 | -- -- | -- | -4.68 | 0.28 | 1.00 | 0.18 | 4.51 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -176372 | 6809 | -3375 | -427 | -- -- | -- | -4.67 | 0.27 | 1.00 | 0.18 | 4.50 | 0.08 | -- | -- | |
| ½ | 1J | -176826 | 6809 | -3375 | -421 | -- -- | -- | -4.68 | 0.28 | 1.00 | 0.18 | 4.51 | 0.08 | -- | -- | |
| ½ | 1K | -176372 | 6809 | -3379 | -427 | -- -- | -- | -4.67 | 0.27 | 1.00 | 0.18 | 4.50 | 0.08 | -- | -- | |
| ½ | 1L | -176826 | 6809 | -3379 | -421 | -- -- | -- | -4.68 | 0.28 | 1.00 | 0.18 | 4.51 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -43931 | 2191 | -1201 | 1622 | -- -- | -- | -4.28 | 0.25 | 1.00 | 0.21 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1B | -43963 | 2191 | -1201 | 1624 | -- -- | -- | -4.28 | 0.25 | 1.00 | 0.21 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1C | -43931 | 2191 | -1201 | 1622 | -- -- | -- | -4.28 | 0.25 | 1.00 | 0.21 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1D | -43963 | 2191 | -1201 | 1624 | -- -- | -- | -4.28 | 0.25 | 1.00 | 0.21 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -43908 | 2208 | -1201 | 1620 | -- -- | -- | -4.28 | 0.25 | 1.00 | 0.22 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1J | -43986 | 2208 | -1201 | 1626 | -- -- | -- | -4.29 | 0.25 | 1.00 | 0.22 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1K | -43908 | 2208 | -1201 | 1620 | -- -- | -- | -4.28 | 0.25 | 1.00 | 0.22 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1L | -43986 | 2208 | -1201 | 1626 | -- -- | -- | -4.29 | 0.25 | 1.00 | 0.22 | 4.21 | 0.10 | 0.09 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri interni placcati in CA**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **48.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -38605 | 5826 | -1064 | 1980 | -- -- | -- | -3.25 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1B | -38617 | 5826 | -1064 | 1980 | -- -- | -- | -3.26 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1C | -38605 | 5826 | -1065 | 1980 | -- -- | -- | -3.25 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1D | -38617 | 5826 | -1065 | 1980 | -- -- | -- | -3.26 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -38596 | 5845 | -1063 | 1979 | -- -- | -- | -3.25 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1J | -38626 | 5845 | -1063 | 1981 | -- -- | -- | -3.26 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1K | -38596 | 5845 | -1066 | 1979 | -- -- | -- | -3.25 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1L | -38626 | 5845 | -1066 | 1981 | -- -- | -- | -3.26 | 0.14 | 1.00 | 0.49 | 3.44 | 0.29 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -195058 | 7131 | -4485 | 193 | -- -- | -- | -5.59 | 0.23 | 1.00 | 0.20 | 5.19 | 0.08 | -- | -- | |
| ½ | 1B | -195212 | 7131 | -4485 | 195 | -- -- | -- | -5.59 | 0.23 | 1.00 | 0.20 | 5.19 | 0.08 | -- | -- | |
| ½ | 1C | -195058 | 7131 | -4486 | 193 | -- -- | -- | -5.59 | 0.23 | 1.00 | 0.20 | 5.19 | 0.08 | -- | -- | |
| ½ | 1D | -195212 | 7131 | -4486 | 195 | -- -- | -- | -5.59 | 0.23 | 1.00 | 0.20 | 5.19 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -194951 | 7176 | -4484 | 192 | -- -- | -- | -5.58 | 0.23 | 1.00 | 0.21 | 5.19 | 0.08 | -- | -- | |
| ½ | 1J | -195319 | 7176 | -4484 | 196 | -- -- | -- | -5.59 | 0.23 | 1.00 | 0.21 | 5.19 | 0.08 | -- | -- | |
| ½ | 1K | -194951 | 7176 | -4487 | 192 | -- -- | -- | -5.58 | 0.23 | 1.00 | 0.21 | 5.19 | 0.08 | -- | -- | |
| ½ | 1L | -195319 | 7176 | -4487 | 196 | -- -- | -- | -5.59 | 0.23 | 1.00 | 0.21 | 5.19 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -53986 | 6940 | -3088 | -4271 | -- -- | -- | -6.01 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.22 | 0.18 | |
| 0 | 1B | -54009 | 6940 | -3088 | -4278 | -- -- | -- | -6.01 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.23 | 0.18 | |
| 0 | 1C | -53986 | 6940 | -3088 | -4271 | -- -- | -- | -6.01 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.22 | 0.18 | |
| 0 | 1D | -54009 | 6940 | -3088 | -4278 | -- -- | -- | -6.01 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.23 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -53971 | 6954 | -3088 | -4265 | -- -- | -- | -6.01 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.22 | 0.18 | |
| 0 | 1J | -54024 | 6954 | -3088 | -4284 | -- -- | -- | -6.02 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.23 | 0.18 | |
| 0 | 1K | -53971 | 6954 | -3089 | -4265 | -- -- | -- | -6.01 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.22 | 0.18 | |
| 0 | 1L | -54024 | 6954 | -3089 | -4284 | -- -- | -- | -6.02 | 0.25 | 1.00 | 0.77 | 5.51 | 0.28 | 0.23 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -19059 | 186 | 13 | 0 | -- | -- | -- | -2.78 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1B | -19084 | 186 | 13 | 0 | -- | -- | -- | -2.79 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1C | -19059 | 186 | 12 | 0 | -- | -- | -- | -2.78 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1D | -19084 | 186 | 12 | 0 | -- | -- | -- | -2.79 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -19041 | 202 | 14 | 0 | -- | -- | -- | -2.78 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1J | -19102 | 202 | 14 | 0 | -- | -- | -- | -2.79 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1K | -19041 | 202 | 10 | 0 | -- | -- | -- | -2.78 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1L | -19102 | 202 | 10 | 0 | -- | -- | -- | -2.79 | 0.16 | 1.00 | 0.03 | 3.09 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -135993 | 19112 | -609 | -870 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.43 | 0.29 | -- | -- | |
| ½ | 1B | -136059 | 19112 | -609 | -874 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.44 | 0.29 | -- | -- | |
| ½ | 1C | -135993 | 19112 | -613 | -870 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.43 | 0.29 | -- | -- | |
| ½ | 1D | -136059 | 19112 | -613 | -874 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.44 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -135948 | 19137 | -607 | -867 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.43 | 0.29 | -- | -- | |
| ½ | 1J | -136104 | 19137 | -607 | -877 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.44 | 0.29 | -- | -- | |
| ½ | 1K | -135948 | 19137 | -616 | -867 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.43 | 0.29 | -- | -- | |
| ½ | 1L | -136104 | 19137 | -616 | -877 | -- | -- | -- | -4.58 | 0.27 | 1.00 | 0.64 | 4.44 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -20165 | 4118 | -330 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1B | -20170 | 4118 | -330 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1C | -20165 | 4118 | -331 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1D | -20170 | 4118 | -331 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20162 | 4125 | -329 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1J | -20174 | 4125 | -329 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1K | -20162 | 4125 | -331 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1L | -20174 | 4125 | -331 | 0 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.73 | 3.69 | 0.40 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 546.00 cm

| Posiz. | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -47353 | 3897 | -1833 | -175 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1B | -47359 | 3897 | -1833 | -174 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1C | -47353 | 3897 | -1842 | -175 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1D | -47359 | 3897 | -1842 | -174 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -47348 | 3901 | -1826 | -175 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1J | -47363 | 3901 | -1826 | -174 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1K | -47348 | 3901 | -1849 | -175 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1L | -47363 | 3901 | -1849 | -174 | -- | -- | -- | -2.81 | 0.17 | 1.00 | 0.23 | 3.11 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -129973 | 7759 | 3026 | 3499 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1B | -129990 | 7759 | 3026 | 3504 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1C | -129973 | 7759 | 3020 | 3499 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1D | -129990 | 7759 | 3020 | 3504 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -129961 | 7768 | 3030 | 3496 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1J | -130002 | 7768 | 3030 | 3507 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1K | -129961 | 7768 | 3016 | 3496 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1L | -130002 | 7768 | 3016 | 3507 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.18 | 3.29 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -59169 | 6592 | -1277 | 6388 | -- | -- | -- | -3.51 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1B | -59183 | 6592 | -1277 | 6394 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1C | -59169 | 6592 | -1281 | 6388 | -- | -- | -- | -3.51 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1D | -59183 | 6592 | -1281 | 6394 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -59159 | 6599 | -1275 | 6383 | -- | -- | -- | -3.51 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1J | -59193 | 6599 | -1275 | 6398 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1K | -59159 | 6599 | -1284 | 6383 | -- | -- | -- | -3.51 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1L | -59193 | 6599 | -1284 | 6398 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.39 | 3.64 | 0.22 | 0.15 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -61162 | 6209 | -1156 | 12115 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1B | -61168 | 6209 | -1156 | 12118 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1C | -61162 | 6209 | -1159 | 12115 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1D | -61168 | 6209 | -1159 | 12118 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -61159 | 6216 | -1153 | 12113 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1J | -61171 | 6216 | -1153 | 12120 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1K | -61159 | 6216 | -1162 | 12113 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1L | -61171 | 6216 | -1162 | 12120 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.21 | 2.23 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -381333 | 19818 | 1639 | 31429 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1B | -381367 | 19818 | 1639 | 31437 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1C | -381333 | 19818 | 1624 | 31429 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1D | -381367 | 19818 | 1624 | 31437 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -381309 | 19829 | 1650 | 31422 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1J | -381391 | 19829 | 1650 | 31443 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1K | -381309 | 19829 | 1613 | 31422 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1L | -381391 | 19829 | 1613 | 31443 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.16 | 2.92 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -144923 | 9557 | 6351 | 17003 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1B | -144931 | 9557 | 6351 | 16999 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1C | -144923 | 9557 | 6348 | 17003 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1D | -144931 | 9557 | 6348 | 16999 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -144918 | 9562 | 6354 | 17005 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1J | -144936 | 9562 | 6354 | 16996 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1K | -144918 | 9562 | 6346 | 17005 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1L | -144936 | 9562 | 6346 | 16996 | -- | -- | -- | -3.87 | 0.34 | 1.00 | 0.26 | 3.56 | 0.14 | 0.11 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 546.00 cm

| P os | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -67103 | 1622 | -4197 | 6771 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1B | -67108 | 1622 | -4197 | 6773 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1C | -67103 | 1622 | -4201 | 6771 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1D | -67108 | 1622 | -4201 | 6773 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -67099 | 1626 | -4194 | 6769 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1J | -67112 | 1626 | -4194 | 6775 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1K | -67099 | 1626 | -4204 | 6769 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1L | -67112 | 1626 | -4204 | 6775 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.08 | 3.47 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -337471 | 13859 | -10325 | -290 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1B | -337508 | 13859 | -10325 | -289 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1C | -337471 | 13859 | -10333 | -290 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1D | -337508 | 13859 | -10333 | -289 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -337445 | 13873 | -10320 | -292 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1J | -337534 | 13873 | -10320 | -288 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1K | -337445 | 13873 | -10338 | -292 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1L | -337534 | 13873 | -10338 | -288 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.17 | 4.05 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -120835 | 7734 | 2329 | 2908 | -- | -- | -- | -5.11 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1B | -120849 | 7734 | 2329 | 2904 | -- | -- | -- | -5.12 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1C | -120835 | 7734 | 2327 | 2908 | -- | -- | -- | -5.11 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1D | -120849 | 7734 | 2327 | 2904 | -- | -- | -- | -5.12 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -120825 | 7737 | 2331 | 2911 | -- | -- | -- | -5.11 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1J | -120859 | 7737 | 2331 | 2901 | -- | -- | -- | -5.12 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1K | -120825 | 7737 | 2326 | 2911 | -- | -- | -- | -5.11 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1L | -120859 | 7737 | 2326 | 2901 | -- | -- | -- | -5.12 | 0.30 | 1.00 | 0.33 | 4.84 | 0.14 | 0.03 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -39628 | 7322 | -4807 | -3620 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1B | -39629 | 7322 | -4807 | -3619 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1C | -39628 | 7322 | -4810 | -3620 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1D | -39629 | 7322 | -4810 | -3619 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -39627 | 7326 | -4806 | -3620 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1J | -39630 | 7326 | -4806 | -3618 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1K | -39627 | 7326 | -4811 | -3620 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1L | -39630 | 7326 | -4811 | -3618 | -- | -- | -- | -3.12 | 0.18 | 1.00 | 0.58 | 3.34 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -349151 | 22896 | -20241 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.46 | 0.14 | -- | -- | |
| ½ | 1B | -349185 | 22896 | -20241 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.47 | 0.14 | -- | -- | |
| ½ | 1C | -349151 | 22896 | -20251 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.46 | 0.14 | -- | -- | |
| ½ | 1D | -349185 | 22896 | -20251 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.47 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -349127 | 22907 | -20235 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.46 | 0.14 | -- | -- | |
| ½ | 1J | -349209 | 22907 | -20235 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.47 | 0.14 | -- | -- | |
| ½ | 1K | -349127 | 22907 | -20258 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.46 | 0.14 | -- | -- | |
| ½ | 1L | -349209 | 22907 | -20258 | 6741 | -- | -- | -- | -4.62 | 0.27 | 1.00 | 0.30 | 4.47 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -113593 | 6025 | -2620 | -4755 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1B | -113605 | 6025 | -2620 | -4758 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1C | -113593 | 6025 | -2621 | -4755 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1D | -113605 | 6025 | -2621 | -4758 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -113585 | 6027 | -2620 | -4753 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1J | -113613 | 6027 | -2620 | -4760 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1K | -113585 | 6027 | -2621 | -4753 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1L | -113613 | 6027 | -2621 | -4760 | -- | -- | -- | -5.41 | 0.32 | 1.00 | 0.29 | 5.06 | 0.11 | 0.07 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -67814 | 8441 | 352 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1B | -67820 | 8441 | 352 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1C | -67814 | 8441 | 351 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1D | -67820 | 8441 | 351 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -67810 | 8445 | 353 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1J | -67824 | 8445 | 353 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1K | -67810 | 8445 | 350 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1L | -67824 | 8445 | 350 | 782 | -- -- | -- | -2.79 | 0.16 | 1.00 | 0.35 | 3.09 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -312036 | 22651 | -15446 | 5889 | -- -- | -- | -4.03 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1B | -312059 | 22651 | -15446 | 5892 | -- -- | -- | -4.03 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1C | -312036 | 22651 | -15449 | 5889 | -- -- | -- | -4.03 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1D | -312059 | 22651 | -15449 | 5892 | -- -- | -- | -4.03 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -312020 | 22656 | -15443 | 5887 | -- -- | -- | -4.02 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1J | -312075 | 22656 | -15443 | 5893 | -- -- | -- | -4.03 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1K | -312020 | 22656 | -15452 | 5887 | -- -- | -- | -4.02 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1L | -312075 | 22656 | -15452 | 5893 | -- -- | -- | -4.03 | 0.24 | 1.00 | 0.29 | 4.02 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -104141 | 12330 | -10688 | -9637 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1B | -104148 | 12330 | -10688 | -9638 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1C | -104141 | 12330 | -10689 | -9637 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1D | -104148 | 12330 | -10689 | -9638 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -104135 | 12331 | -10687 | -9636 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1J | -104154 | 12331 | -10687 | -9639 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1K | -104135 | 12331 | -10690 | -9636 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1L | -104154 | 12331 | -10690 | -9639 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.54 | 4.44 | 0.24 | 0.13 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -31505 | 2004 | 793 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1B | -31511 | 2004 | 793 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1C | -31505 | 2004 | 792 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1D | -31511 | 2004 | 792 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -31502 | 2006 | 793 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1J | -31514 | 2006 | 793 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1K | -31502 | 2006 | 792 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1L | -31514 | 2006 | 792 | 0 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -140458 | 12583 | -2750 | 839 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1B | -140473 | 12583 | -2750 | 839 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1C | -140458 | 12583 | -2751 | 839 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1D | -140473 | 12583 | -2751 | 839 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -140447 | 12585 | -2749 | 838 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1J | -140484 | 12585 | -2749 | 840 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1K | -140447 | 12585 | -2753 | 838 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1L | -140484 | 12585 | -2753 | 840 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.28 | 3.04 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29727 | 3134 | -733 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.49 | 0.21 | 0.00 | 0.06 | |
| 0 | 1B | -29731 | 3134 | -733 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.50 | 0.21 | 0.00 | 0.06 | |
| 0 | 1C | -29727 | 3134 | -734 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.49 | 0.21 | 0.00 | 0.06 | |
| 0 | 1D | -29731 | 3134 | -734 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.50 | 0.21 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29725 | 3134 | -733 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.49 | 0.21 | 0.00 | 0.06 | |
| 0 | 1J | -29733 | 3134 | -733 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.50 | 0.21 | 0.00 | 0.06 | |
| 0 | 1K | -29725 | 3134 | -734 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.49 | 0.21 | 0.00 | 0.06 | |
| 0 | 1L | -29733 | 3134 | -734 | -21 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.26 | 2.50 | 0.21 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -36268 | 1830 | -228 | -2215 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1B | -36273 | 1830 | -228 | -2214 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1C | -36268 | 1830 | -233 | -2215 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1D | -36273 | 1830 | -233 | -2214 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -36264 | 1832 | -223 | -2215 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1J | -36277 | 1832 | -223 | -2214 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1K | -36264 | 1832 | -237 | -2215 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1L | -36277 | 1832 | -237 | -2214 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.11 | 2.30 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -99115 | 5591 | -1278 | 1551 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1B | -99131 | 5591 | -1278 | 1551 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1C | -99115 | 5591 | -1293 | 1551 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1D | -99131 | 5591 | -1293 | 1551 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -99104 | 5594 | -1267 | 1552 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1J | -99142 | 5594 | -1267 | 1550 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1K | -99104 | 5594 | -1304 | 1552 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1L | -99142 | 5594 | -1304 | 1550 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.18 | 3.01 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -37321 | 1800 | -474 | -325 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1B | -37324 | 1800 | -474 | -327 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1C | -37321 | 1800 | -478 | -325 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1D | -37324 | 1800 | -478 | -327 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -37318 | 1801 | -471 | -324 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1J | -37326 | 1801 | -471 | -329 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1K | -37318 | 1801 | -480 | -324 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1L | -37326 | 1801 | -480 | -329 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.02 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -63879 | 9083 | -1404 | 4933 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1B | -63888 | 9083 | -1404 | 4935 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1C | -63879 | 9083 | -1418 | 4933 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1D | -63888 | 9083 | -1418 | 4935 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -63872 | 9084 | -1395 | 4931 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1J | -63895 | 9084 | -1395 | 4936 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1K | -63872 | 9084 | -1428 | 4931 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1L | -63895 | 9084 | -1428 | 4936 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.28 | 2.14 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -161236 | 11068 | -929 | 630 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1B | -161257 | 11068 | -929 | 629 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1C | -161236 | 11068 | -949 | 630 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1D | -161257 | 11068 | -949 | 629 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -161221 | 11070 | -915 | 631 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1J | -161272 | 11070 | -915 | 628 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1K | -161221 | 11070 | -963 | 631 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1L | -161272 | 11070 | -963 | 628 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.23 | 3.18 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -37636 | 1180 | 887 | -710 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1B | -37643 | 1180 | 887 | -711 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1C | -37636 | 1180 | 881 | -710 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1D | -37643 | 1180 | 881 | -711 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -37631 | 1182 | 890 | -710 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1J | -37648 | 1182 | 890 | -711 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1K | -37631 | 1182 | 878 | -710 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1L | -37648 | 1182 | 878 | -711 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.08 | 2.62 | 0.06 | 0.04 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 546.00 cm

| P o s | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -36723 | 2385 | -2848 | -2214 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1B | -36724 | 2385 | -2848 | -2215 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1C | -36723 | 2385 | -2865 | -2214 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1D | -36724 | 2385 | -2865 | -2215 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -36723 | 2387 | -2836 | -2213 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1J | -36724 | 2387 | -2836 | -2215 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1K | -36723 | 2387 | -2877 | -2213 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1L | -36724 | 2387 | -2877 | -2215 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.13 | 2.18 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -242652 | 20385 | -156 | 1504 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1B | -242665 | 20385 | -156 | 1505 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1C | -242652 | 20385 | -225 | 1504 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1D | -242665 | 20385 | -225 | 1505 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -242643 | 20392 | -107 | 1503 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1J | -242675 | 20392 | -107 | 1505 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1K | -242643 | 20392 | -274 | 1503 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1L | -242675 | 20392 | -274 | 1505 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.26 | 3.01 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -50129 | 2434 | 3168 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1B | -50133 | 2434 | 3168 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1C | -50129 | 2434 | 3164 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1D | -50133 | 2434 | 3164 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50127 | 2435 | 3172 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1J | -50135 | 2435 | 3172 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1K | -50127 | 2435 | 3161 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1L | -50135 | 2435 | 3161 | 45 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.13 | 2.61 | 0.10 | 0.00 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -56745 | 1853 | -3177 | 588 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.48 | 0.06 | -- | -- | |
| l | 1B | -56750 | 1853 | -3177 | 592 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.48 | 0.06 | -- | -- | |
| l | 1C | -56745 | 1853 | -3227 | 588 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.48 | 0.06 | -- | -- | |
| l | 1D | -56750 | 1853 | -3227 | 592 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.48 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -56742 | 1856 | -3143 | 586 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.47 | 0.06 | -- | -- | |
| l | 1J | -56754 | 1856 | -3143 | 595 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.48 | 0.06 | -- | -- | |
| l | 1K | -56742 | 1856 | -3261 | 586 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.47 | 0.06 | -- | -- | |
| l | 1L | -56754 | 1856 | -3261 | 595 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.08 | 2.48 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -190764 | 14299 | 1185 | -5690 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1B | -190782 | 14299 | 1185 | -5689 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1C | -190764 | 14299 | 1109 | -5690 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1D | -190782 | 14299 | 1109 | -5689 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -190752 | 14306 | 1238 | -5690 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1J | -190795 | 14306 | 1238 | -5688 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1K | -190752 | 14306 | 1055 | -5690 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1L | -190795 | 14306 | 1055 | -5688 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -67131 | 4896 | 3835 | 4832 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1B | -67137 | 4896 | 3835 | 4836 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1C | -67131 | 4896 | 3828 | 4832 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1D | -67137 | 4896 | 3828 | 4836 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -67128 | 4899 | 3841 | 4829 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1J | -67141 | 4899 | 3841 | 4839 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1K | -67128 | 4899 | 3823 | 4829 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1L | -67141 | 4899 | 3823 | 4839 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.98 | 0.15 | 0.10 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -26627 | 3264 | -1016 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1B | -26631 | 3264 | -1016 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1C | -26627 | 3264 | -1026 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1D | -26631 | 3264 | -1026 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -26624 | 3271 | -1009 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1J | -26634 | 3271 | -1009 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1K | -26624 | 3271 | -1033 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1L | -26634 | 3271 | -1033 | 294 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.22 | 2.01 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -183294 | 1819 | -1834 | -1801 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1B | -183327 | 1819 | -1834 | -1800 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1C | -183294 | 1819 | -1866 | -1801 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1D | -183327 | 1819 | -1866 | -1800 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -183272 | 1833 | -1812 | -1801 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1J | -183349 | 1833 | -1812 | -1800 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1K | -183272 | 1833 | -1888 | -1801 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1L | -183349 | 1833 | -1888 | -1800 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.03 | 3.14 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -66269 | 1915 | 807 | 774 | -- | -- | -- | -4.48 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1B | -66294 | 1915 | 807 | 776 | -- | -- | -- | -4.49 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1C | -66269 | 1915 | 805 | 774 | -- | -- | -- | -4.48 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1D | -66294 | 1915 | 805 | 776 | -- | -- | -- | -4.49 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -66253 | 1921 | 808 | 772 | -- | -- | -- | -4.48 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1J | -66310 | 1921 | 808 | 778 | -- | -- | -- | -4.49 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1K | -66253 | 1921 | 803 | 772 | -- | -- | -- | -4.48 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1L | -66310 | 1921 | 803 | 778 | -- | -- | -- | -4.49 | 0.39 | 1.00 | 0.13 | 4.02 | 0.06 | 0.03 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -28868 | 360 | 123 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1B | -28872 | 360 | 123 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1C | -28868 | 360 | 120 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1D | -28872 | 360 | 120 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -28866 | 361 | 125 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1J | -28874 | 361 | 125 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1K | -28866 | 361 | 118 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1L | -28874 | 361 | 118 | -327 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.02 | 1.95 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -171871 | 15773 | -2478 | 3302 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1B | -171895 | 15773 | -2478 | 3301 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1C | -171871 | 15773 | -2497 | 3302 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1D | -171895 | 15773 | -2497 | 3301 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -171854 | 15782 | -2465 | 3303 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1J | -171912 | 15782 | -2465 | 3301 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1K | -171854 | 15782 | -2511 | 3303 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1L | -171912 | 15782 | -2511 | 3301 | -- -- | -- | -3.32 | 0.29 | 1.00 | 0.31 | 3.15 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -60935 | 4160 | -674 | -2686 | -- -- | -- | -3.63 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1B | -60944 | 4160 | -674 | -2688 | -- -- | -- | -3.64 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1C | -60935 | 4160 | -680 | -2686 | -- -- | -- | -3.63 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1D | -60944 | 4160 | -680 | -2688 | -- -- | -- | -3.64 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -60929 | 4164 | -670 | -2684 | -- -- | -- | -3.63 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1J | -60951 | 4164 | -670 | -2689 | -- -- | -- | -3.64 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1K | -60929 | 4164 | -685 | -2684 | -- -- | -- | -3.63 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1L | -60951 | 4164 | -685 | -2689 | -- -- | -- | -3.64 | 0.32 | 1.00 | 0.25 | 3.39 | 0.15 | 0.09 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -35065 | 997 | -14 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1B | -35070 | 997 | -14 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1C | -35065 | 997 | -14 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1D | -35070 | 997 | -14 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -35062 | 997 | -13 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1J | -35073 | 997 | -13 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1K | -35062 | 997 | -14 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1L | -35073 | 997 | -14 | 444 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -182359 | 16410 | 493 | -2031 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1B | -182375 | 16410 | 493 | -2031 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1C | -182359 | 16410 | 490 | -2031 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1D | -182375 | 16410 | 490 | -2031 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -182348 | 16413 | 494 | -2032 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1J | -182386 | 16413 | 494 | -2031 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1K | -182348 | 16413 | 488 | -2032 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1L | -182386 | 16413 | 488 | -2031 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.30 | 3.13 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -55998 | 7064 | -143 | 2156 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1B | -56002 | 7064 | -143 | 2156 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1C | -55998 | 7064 | -144 | 2156 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1D | -56002 | 7064 | -144 | 2156 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -55996 | 7064 | -143 | 2156 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1J | -56005 | 7064 | -143 | 2155 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1K | -55996 | 7064 | -144 | 2156 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1L | -56005 | 7064 | -144 | 2155 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.44 | 3.30 | 0.27 | 0.08 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -38065 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1B | -38067 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1C | -38065 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1D | -38067 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -38064 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1J | -38068 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1K | -38064 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1L | -38068 | 1884 | -115 | 110 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.09 | 2.07 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -182013 | 11723 | -1209 | -286 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1B | -182022 | 11723 | -1209 | -287 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1C | -182013 | 11723 | -1210 | -286 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1D | -182022 | 11723 | -1210 | -287 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -182007 | 11725 | -1209 | -285 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1J | -182027 | 11725 | -1209 | -287 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1K | -182007 | 11725 | -1211 | -285 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1L | -182027 | 11725 | -1211 | -287 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.19 | 2.91 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -84410 | 10530 | -741 | 1155 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1B | -84417 | 10530 | -741 | 1152 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1C | -84410 | 10530 | -742 | 1155 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1D | -84417 | 10530 | -742 | 1152 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -84406 | 10531 | -741 | 1156 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1J | -84421 | 10531 | -741 | 1151 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1K | -84406 | 10531 | -742 | 1156 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1L | -84421 | 10531 | -742 | 1151 | -- | -- | -- | -4.18 | 0.36 | 1.00 | 0.52 | 3.79 | 0.27 | 0.03 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -39625 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1B | -39626 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1C | -39625 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1D | -39626 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -39625 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1J | -39627 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1K | -39625 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1L | -39627 | 1531 | 34 | -29 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.08 | 2.22 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -193131 | 11741 | -1817 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1B | -193137 | 11741 | -1817 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1C | -193131 | 11741 | -1819 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1D | -193137 | 11741 | -1819 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -193127 | 11742 | -1815 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1J | -193141 | 11742 | -1815 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1K | -193127 | 11742 | -1821 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1L | -193141 | 11742 | -1821 | 694 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.20 | 3.19 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -85149 | 4883 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1B | -85152 | 4883 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1C | -85149 | 4883 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1D | -85152 | 4883 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -85146 | 4884 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1J | -85154 | 4884 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1K | -85146 | 4884 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1L | -85154 | 4884 | -683 | -464 | -- | -- | -- | -4.46 | 0.39 | 1.00 | 0.26 | 4.00 | 0.13 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -53934 | 5765 | -2369 | -3519 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1B | -53936 | 5765 | -2369 | -3519 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1C | -53934 | 5765 | -2371 | -3519 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1D | -53936 | 5765 | -2371 | -3519 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -53933 | 5767 | -2368 | -3520 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1J | -53937 | 5767 | -2368 | -3519 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1K | -53933 | 5767 | -2372 | -3520 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1L | -53937 | 5767 | -2372 | -3519 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.33 | 3.29 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -354420 | 20329 | -12394 | -2443 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1B | -354429 | 20329 | -12394 | -2443 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1C | -354420 | 20329 | -12398 | -2443 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1D | -354429 | 20329 | -12398 | -2443 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -354414 | 20334 | -12391 | -2443 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1J | -354435 | 20334 | -12391 | -2442 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1K | -354414 | 20334 | -12400 | -2443 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1L | -354435 | 20334 | -12400 | -2442 | -- | -- | -- | -3.89 | 0.23 | 1.00 | 0.22 | 3.91 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -116621 | 10284 | -978 | -6496 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1B | -116624 | 10284 | -978 | -6497 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1C | -116621 | 10284 | -979 | -6496 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1D | -116624 | 10284 | -979 | -6497 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -116619 | 10285 | -977 | -6496 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1J | -116626 | 10285 | -977 | -6497 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1K | -116619 | 10285 | -979 | -6496 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1L | -116626 | 10285 | -979 | -6497 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.42 | 4.57 | 0.18 | 0.07 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 1A | -70718 | 1280 | 252 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1B | -70720 | 1280 | 252 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1C | -70718 | 1280 | 251 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1D | -70720 | 1280 | 251 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1I | -70717 | 1281 | 252 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1J | -70721 | 1281 | 252 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1K | -70717 | 1281 | 251 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1L | -70721 | 1281 | 251 | 502 | -- -- | -- | -2.80 | 0.16 | 1.00 | 0.05 | 3.10 | 0.03 | -- | -- | |
| *l* | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -359152 | 14146 | -7416 | -599 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1B | -359163 | 14146 | -7416 | -599 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1C | -359152 | 14146 | -7421 | -599 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1D | -359163 | 14146 | -7421 | -599 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -359144 | 14151 | -7412 | -599 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1J | -359171 | 14151 | -7412 | -598 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1K | -359144 | 14151 | -7425 | -599 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1L | -359171 | 14151 | -7425 | -598 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.16 | 4.08 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -130059 | 11634 | -512 | -7154 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1B | -130063 | 11634 | -512 | -7155 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1C | -130059 | 11634 | -515 | -7154 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1D | -130063 | 11634 | -515 | -7155 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -130055 | 11636 | -509 | -7154 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1J | -130066 | 11636 | -509 | -7156 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1K | -130055 | 11636 | -517 | -7154 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1L | -130066 | 11636 | -517 | -7156 | -- -- | -- | -5.15 | 0.30 | 1.00 | 0.46 | 4.86 | 0.19 | 0.07 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -62776 | 2027 | -7294 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1B | -62781 | 2027 | -7294 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1C | -62776 | 2027 | -7296 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1D | -62781 | 2027 | -7296 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -62773 | 2028 | -7293 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1J | -62784 | 2028 | -7293 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1K | -62773 | 2028 | -7298 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1L | -62784 | 2028 | -7298 | -725 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.11 | 3.46 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -246895 | 15472 | -6288 | 3419 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1B | -246912 | 15472 | -6288 | 3420 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1C | -246895 | 15472 | -6291 | 3419 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1D | -246912 | 15472 | -6291 | 3420 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -246883 | 15476 | -6286 | 3419 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1J | -246924 | 15476 | -6286 | 3420 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1K | -246883 | 15476 | -6292 | 3419 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1L | -246924 | 15476 | -6292 | 3420 | -- | -- | -- | -4.30 | 0.25 | 1.00 | 0.27 | 4.23 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -79790 | 7308 | 882 | -7104 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1B | -79796 | 7308 | 882 | -7105 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1C | -79790 | 7308 | 881 | -7104 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1D | -79796 | 7308 | 881 | -7105 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -79785 | 7310 | 882 | -7103 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1J | -79801 | 7310 | 882 | -7106 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1K | -79785 | 7310 | 880 | -7103 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1L | -79801 | 7310 | 880 | -7106 | -- | -- | -- | -4.17 | 0.25 | 1.00 | 0.38 | 4.13 | 0.19 | 0.14 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -19580 | 853 | 582 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1B | -19584 | 853 | 582 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1C | -19580 | 853 | 582 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1D | -19584 | 853 | 582 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -19578 | 854 | 583 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1J | -19586 | 854 | 583 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1K | -19578 | 854 | 581 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1L | -19586 | 854 | 581 | 0 | -- | -- | -- | -2.28 | 0.13 | 1.00 | 0.10 | 2.71 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -80142 | 5806 | -882 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.33 | 0.14 | -- | -- | |
| ½ | 1B | -80153 | 5806 | -882 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.34 | 0.14 | -- | -- | |
| ½ | 1C | -80142 | 5806 | -883 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.33 | 0.14 | -- | -- | |
| ½ | 1D | -80153 | 5806 | -883 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.34 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -80135 | 5807 | -881 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.33 | 0.14 | -- | -- | |
| ½ | 1J | -80160 | 5807 | -881 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.34 | 0.14 | -- | -- | |
| ½ | 1K | -80135 | 5807 | -884 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.33 | 0.14 | -- | -- | |
| ½ | 1L | -80160 | 5807 | -884 | 0 | -- | -- | -- | -3.11 | 0.18 | 1.00 | 0.23 | 3.34 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -18894 | 729 | 402 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1B | -18897 | 729 | 402 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1C | -18894 | 729 | 402 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1D | -18897 | 729 | 402 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -18892 | 729 | 402 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1J | -18899 | 729 | 402 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1K | -18892 | 729 | 401 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1L | -18899 | 729 | 401 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.08 | 2.65 | 0.06 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -11012 | 110 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1B | -11013 | 110 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1C | -11012 | 110 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1D | -11013 | 110 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11012 | 112 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1J | -11014 | 112 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1K | -11012 | 112 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1L | -11014 | 112 | -120 | 0 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.02 | 2.45 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -33927 | 7021 | -208 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.41 | 0.45 | -- | -- | |
| ½ | 1B | -33940 | 7021 | -208 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.42 | 0.45 | -- | -- | |
| ½ | 1C | -33927 | 7021 | -209 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.41 | 0.45 | -- | -- | |
| ½ | 1D | -33940 | 7021 | -209 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.42 | 0.45 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -33917 | 7025 | -207 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.41 | 0.45 | -- | -- | |
| ½ | 1J | -33949 | 7025 | -207 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.42 | 0.45 | -- | -- | |
| ½ | 1K | -33917 | 7025 | -210 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.41 | 0.45 | -- | -- | |
| ½ | 1L | -33949 | 7025 | -210 | 0 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.76 | 3.42 | 0.45 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -18325 | 590 | -2 | 0 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.13 | 3.64 | 0.07 | 0.00 | 0.00 | |
| 0 | 1B | -18327 | 590 | -2 | 0 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.13 | 3.64 | 0.07 | 0.00 | 0.00 | |
| 0 | 1C | -18325 | 590 | -3 | 0 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.13 | 3.64 | 0.07 | 0.00 | 0.00 | |
| 0 | 1D | -18327 | 590 | -3 | 0 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.13 | 3.64 | 0.07 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -18323 | 590 | -2 | 0 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.13 | 3.63 | 0.07 | 0.00 | 0.00 | |
| 0 | 1J | -18328 | 590 | -2 | 0 | -- | -- | -- | -3.97 | 0.35 | 1.00 | 0.13 | 3.64 | 0.07 | 0.00 | 0.00 | |
| 0 | 1K | -18323 | 590 | -3 | 0 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.13 | 3.63 | 0.07 | 0.00 | 0.00 | |
| 0 | 1L | -18328 | 590 | -3 | 0 | -- | -- | -- | -3.97 | 0.35 | 1.00 | 0.13 | 3.64 | 0.07 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -34648 | 6071 | 461 | 1084 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1B | -34654 | 6071 | 461 | 1082 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1C | -34648 | 6071 | 460 | 1084 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1D | -34654 | 6071 | 460 | 1082 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -34643 | 6078 | 462 | 1084 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1J | -34658 | 6078 | 462 | 1082 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1K | -34643 | 6078 | 458 | 1084 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1L | -34658 | 6078 | 458 | 1082 | -- | -- | -- | -2.07 | 0.18 | 1.00 | 0.36 | 2.21 | 0.33 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -88211 | 9424 | 782 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1B | -88243 | 9424 | 782 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1C | -88211 | 9424 | 778 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1D | -88243 | 9424 | 778 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -88188 | 9438 | 784 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1J | -88266 | 9438 | 784 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1K | -88188 | 9438 | 776 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1L | -88266 | 9438 | 776 | 5868 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.26 | 2.51 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48107 | 1603 | 483 | 4072 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1B | -48120 | 1603 | 483 | 4076 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1C | -48107 | 1603 | 482 | 4072 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1D | -48120 | 1603 | 482 | 4076 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48098 | 1611 | 484 | 4070 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1J | -48129 | 1611 | 484 | 4078 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1K | -48098 | 1611 | 481 | 4070 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1L | -48129 | 1611 | 481 | 4078 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.10 | 2.90 | 0.07 | 0.15 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -58843 | 4696 | 501 | 2585 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1B | -58849 | 4696 | 501 | 2584 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1C | -58843 | 4696 | 500 | 2585 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1D | -58849 | 4696 | 500 | 2584 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -58839 | 4705 | 502 | 2585 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1J | -58854 | 4705 | 502 | 2584 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1K | -58839 | 4705 | 500 | 2585 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1L | -58854 | 4705 | 500 | 2584 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.21 | 2.62 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -244519 | 11024 | -557 | 4674 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1B | -244545 | 11024 | -557 | 4662 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1C | -244519 | 11024 | -559 | 4674 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1D | -244545 | 11024 | -559 | 4662 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -244500 | 11057 | -556 | 4683 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1J | -244564 | 11057 | -556 | 4653 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1K | -244500 | 11057 | -560 | 4683 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1L | -244564 | 11057 | -560 | 4653 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.15 | 3.20 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -88299 | 4170 | -134 | -3199 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1B | -88318 | 4170 | -134 | -3200 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1C | -88299 | 4170 | -135 | -3199 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1D | -88318 | 4170 | -135 | -3200 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -88286 | 4180 | -134 | -3198 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1J | -88332 | 4180 | -134 | -3200 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1K | -88286 | 4180 | -135 | -3198 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1L | -88332 | 4180 | -135 | -3200 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.19 | 3.60 | 0.10 | 0.05 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -66011 | 8879 | 275 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1B | -66014 | 8879 | 275 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1C | -66011 | 8879 | 273 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1D | -66014 | 8879 | 273 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -66009 | 8888 | 276 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1J | -66016 | 8888 | 276 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1K | -66009 | 8888 | 271 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1L | -66016 | 8888 | 271 | -409 | -- | -- | -- | -2.85 | 0.17 | 1.00 | 0.38 | 3.13 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -191851 | 18813 | -1769 | 6071 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1B | -191883 | 18813 | -1769 | 6078 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1C | -191851 | 18813 | -1774 | 6071 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1D | -191883 | 18813 | -1774 | 6078 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -191829 | 18833 | -1766 | 6067 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1J | -191905 | 18833 | -1766 | 6082 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1K | -191829 | 18833 | -1777 | 6067 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1L | -191905 | 18833 | -1777 | 6082 | -- | -- | -- | -4.14 | 0.24 | 1.00 | 0.41 | 4.10 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -122646 | 2626 | -1688 | 9698 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1B | -122659 | 2626 | -1688 | 9705 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1C | -122646 | 2626 | -1689 | 9698 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1D | -122659 | 2626 | -1689 | 9705 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -122637 | 2640 | -1688 | 9694 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1J | -122668 | 2640 | -1688 | 9710 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1K | -122637 | 2640 | -1690 | 9694 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1L | -122668 | 2640 | -1690 | 9710 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.11 | 4.97 | 0.05 | 0.11 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -116308 | 6049 | 792 | 4152 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1B | -116327 | 6049 | 792 | 4153 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1C | -116308 | 6049 | 789 | 4152 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1D | -116327 | 6049 | 789 | 4153 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -116295 | 6057 | 793 | 4151 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1J | -116340 | 6057 | 793 | 4154 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1K | -116295 | 6057 | 788 | 4151 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1L | -116340 | 6057 | 788 | 4154 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.25 | 4.56 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -304263 | 21838 | -415 | 2718 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1B | -304305 | 21838 | -415 | 2714 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1C | -304263 | 21838 | -416 | 2718 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1D | -304305 | 21838 | -416 | 2714 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -304233 | 21859 | -414 | 2720 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1J | -304335 | 21859 | -414 | 2711 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1K | -304233 | 21859 | -418 | 2720 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1L | -304335 | 21859 | -418 | 2711 | -- | -- | -- | -5.01 | 0.29 | 1.00 | 0.36 | 4.76 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -150058 | 10150 | -4142 | -1590 | -- | -- | -- | -6.13 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1B | -150071 | 10150 | -4142 | -1588 | -- | -- | -- | -6.13 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1C | -150058 | 10150 | -4142 | -1590 | -- | -- | -- | -6.13 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1D | -150071 | 10150 | -4142 | -1588 | -- | -- | -- | -6.13 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -150048 | 10161 | -4141 | -1591 | -- | -- | -- | -6.12 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1J | -150081 | 10161 | -4141 | -1587 | -- | -- | -- | -6.13 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1K | -150048 | 10161 | -4143 | -1591 | -- | -- | -- | -6.12 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1L | -150081 | 10161 | -4143 | -1587 | -- | -- | -- | -6.13 | 0.36 | 1.00 | 0.41 | 5.59 | 0.15 | 0.02 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -40863 | 6862 | 60 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1B | -40865 | 6862 | 60 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1C | -40863 | 6862 | 60 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1D | -40865 | 6862 | 60 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -40862 | 6864 | 61 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1J | -40866 | 6864 | 61 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1K | -40862 | 6864 | 60 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1L | -40866 | 6864 | 60 | 0 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.81 | 4.63 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -109840 | 5378 | 898 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1B | -109856 | 5378 | 898 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1C | -109840 | 5378 | 897 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1D | -109856 | 5378 | 897 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -109829 | 5383 | 899 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1J | -109867 | 5383 | 899 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1K | -109829 | 5383 | 896 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1L | -109867 | 5383 | 896 | 0 | -- | -- | -- | -5.64 | 0.33 | 1.00 | 0.28 | 5.23 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -95974 | 8353 | 1633 | 1923 | -- | -- | -- | -5.27 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1B | -95993 | 8353 | 1633 | 1922 | -- | -- | -- | -5.28 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1C | -95974 | 8353 | 1631 | 1923 | -- | -- | -- | -5.27 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1D | -95993 | 8353 | 1631 | 1922 | -- | -- | -- | -5.28 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -95961 | 8358 | 1634 | 1923 | -- | -- | -- | -5.27 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1J | -96006 | 8358 | 1634 | 1922 | -- | -- | -- | -5.28 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1K | -95961 | 8358 | 1630 | 1923 | -- | -- | -- | -5.27 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1L | -96006 | 8358 | 1630 | 1922 | -- | -- | -- | -5.28 | 0.31 | 1.00 | 0.46 | 4.96 | 0.19 | 0.04 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 546.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -40005 | 2669 | 82 | -904 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1B | -40006 | 2669 | 82 | -904 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1C | -40005 | 2669 | 81 | -904 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1D | -40006 | 2669 | 81 | -904 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -40004 | 2670 | 83 | -903 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1J | -40008 | 2670 | 83 | -904 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1K | -40004 | 2670 | 80 | -903 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1L | -40008 | 2670 | 80 | -904 | -- | -- | -- | -4.51 | 0.27 | 1.00 | 0.30 | 4.38 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -111780 | 2994 | 251 | -733 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1B | -111786 | 2994 | 251 | -733 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1C | -111780 | 2994 | 249 | -733 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1D | -111786 | 2994 | 249 | -733 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -111776 | 2995 | 251 | -733 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1J | -111790 | 2995 | 251 | -732 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1K | -111776 | 2995 | 249 | -733 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1L | -111790 | 2995 | 249 | -732 | -- | -- | -- | -4.79 | 0.28 | 1.00 | 0.13 | 4.59 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -38051 | 4621 | 550 | -1539 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1B | -38055 | 4621 | 550 | -1540 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1C | -38051 | 4621 | 550 | -1539 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1D | -38055 | 4621 | 550 | -1540 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -38048 | 4622 | 551 | -1539 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1J | -38058 | 4622 | 551 | -1540 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1K | -38048 | 4622 | 550 | -1539 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1L | -38058 | 4622 | 550 | -1540 | -- | -- | -- | -5.08 | 0.30 | 1.00 | 0.62 | 4.81 | 0.26 | 0.15 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -208533 | 10127 | -6056 | 48978 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1B | -208545 | 10127 | -6056 | 48969 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1C | -208533 | 10127 | -6069 | 48978 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1D | -208545 | 10127 | -6069 | 48969 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -208524 | 10135 | -6047 | 48984 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1J | -208554 | 10135 | -6047 | 48962 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1K | -208524 | 10135 | -6078 | 48984 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1L | -208554 | 10135 | -6078 | 48962 | -- -- | -- | -4.59 | 0.27 | 1.00 | 0.22 | 4.44 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -460419 | 21339 | 1643 | 67055 | -- -- | -- | -4.82 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1B | -460462 | 21339 | 1643 | 67039 | -- -- | -- | -4.82 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1C | -460419 | 21339 | 1621 | 67055 | -- -- | -- | -4.82 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1D | -460462 | 21339 | 1621 | 67039 | -- -- | -- | -4.82 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -460389 | 21360 | 1658 | 67066 | -- -- | -- | -4.82 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1J | -460492 | 21360 | 1658 | 67028 | -- -- | -- | -4.83 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1K | -460389 | 21360 | 1606 | 67066 | -- -- | -- | -4.82 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1L | -460492 | 21360 | 1606 | 67028 | -- -- | -- | -4.83 | 0.28 | 1.00 | 0.22 | 4.62 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -224765 | 20257 | 131 | 45245 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1B | -224799 | 20257 | 131 | 45242 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1C | -224765 | 20257 | 123 | 45245 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1D | -224799 | 20257 | 123 | 45242 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -224741 | 20270 | 137 | 45247 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1J | -224823 | 20270 | 137 | 45240 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1K | -224741 | 20270 | 118 | 45247 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1L | -224823 | 20270 | 118 | 45240 | -- -- | -- | -4.89 | 0.29 | 1.00 | 0.44 | 4.67 | 0.19 | 0.12 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Muri interni placcati in CA**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **48.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -144194 | 10115 | -5324 | -1146 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1B | -144205 | 10115 | -5324 | -1148 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1C | -144194 | 10115 | -5335 | -1146 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1D | -144205 | 10115 | -5335 | -1148 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -144187 | 10116 | -5316 | -1144 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1J | -144213 | 10116 | -5316 | -1149 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1K | -144187 | 10116 | -5343 | -1144 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1L | -144213 | 10116 | -5343 | -1149 | -- | -- | -- | -6.26 | 0.26 | 1.00 | 0.44 | 5.70 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -281286 | 7459 | -2724 | 4363 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1B | -281318 | 7459 | -2724 | 4363 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1C | -281286 | 7459 | -2727 | 4363 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1D | -281318 | 7459 | -2727 | 4363 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -281264 | 7461 | -2721 | 4362 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1J | -281341 | 7461 | -2721 | 4364 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1K | -281264 | 7461 | -2729 | 4362 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1L | -281341 | 7461 | -2729 | 4364 | -- | -- | -- | -6.11 | 0.25 | 1.00 | 0.16 | 5.58 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -157061 | 18569 | 929 | 10647 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.11 | 0.26 | 0.11 | 0.01 | |
| 0 | 1B | -157092 | 18569 | 929 | 10654 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.12 | 0.26 | 0.11 | 0.01 | |
| 0 | 1C | -157061 | 18569 | 927 | 10647 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.11 | 0.26 | 0.11 | 0.01 | |
| 0 | 1D | -157092 | 18569 | 927 | 10654 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.12 | 0.26 | 0.11 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -157039 | 18573 | 930 | 10641 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.11 | 0.26 | 0.11 | 0.01 | |
| 0 | 1J | -157114 | 18573 | 930 | 10660 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.12 | 0.26 | 0.11 | 0.01 | |
| 0 | 1K | -157039 | 18573 | 925 | 10641 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.11 | 0.26 | 0.11 | 0.01 | |
| 0 | 1L | -157114 | 18573 | 925 | 10660 | -- | -- | -- | -6.82 | 0.28 | 1.00 | 0.81 | 6.12 | 0.26 | 0.11 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -50813 | 4989 | 329 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.75 | 0.20 | -- | -- | |
| l | 1B | -50820 | 4989 | 329 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.75 | 0.20 | -- | -- | |
| l | 1C | -50813 | 4989 | 328 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.75 | 0.20 | -- | -- | |
| l | 1D | -50820 | 4989 | 328 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.75 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -50808 | 4991 | 329 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.75 | 0.20 | -- | -- | |
| l | 1J | -50825 | 4991 | 329 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.76 | 0.20 | -- | -- | |
| l | 1K | -50808 | 4991 | 328 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.75 | 0.20 | -- | -- | |
| l | 1L | -50825 | 4991 | 328 | 1118 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.27 | 2.76 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -135539 | 17490 | 837 | 2333 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1B | -135554 | 17490 | 837 | 2333 | -- | -- | -- | -2.96 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1C | -135539 | 17490 | 836 | 2333 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1D | -135554 | 17490 | 836 | 2333 | -- | -- | -- | -2.96 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -135529 | 17500 | 837 | 2333 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1J | -135564 | 17500 | 837 | 2333 | -- | -- | -- | -2.96 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1K | -135529 | 17500 | 835 | 2333 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1L | -135564 | 17500 | 835 | 2333 | -- | -- | -- | -2.96 | 0.26 | 1.00 | 0.38 | 2.88 | 0.27 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -57384 | 9638 | 76 | 2737 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.28 | 0.36 | 0.06 | 0.01 | |
| 0 | 1B | -57395 | 9638 | 76 | 2736 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.28 | 0.36 | 0.06 | 0.01 | |
| 0 | 1C | -57384 | 9638 | 76 | 2737 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.28 | 0.36 | 0.06 | 0.01 | |
| 0 | 1D | -57395 | 9638 | 76 | 2736 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.28 | 0.36 | 0.06 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -57377 | 9643 | 77 | 2738 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.27 | 0.36 | 0.06 | 0.01 | |
| 0 | 1J | -57402 | 9643 | 77 | 2735 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.28 | 0.36 | 0.06 | 0.01 | |
| 0 | 1K | -57377 | 9643 | 76 | 2738 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.27 | 0.36 | 0.06 | 0.01 | |
| 0 | 1L | -57402 | 9643 | 76 | 2735 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.59 | 3.28 | 0.36 | 0.06 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -20306 | 1880 | 164 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.14 | 0.17 | -- | -- | |
| l | 1B | -20307 | 1880 | 164 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.15 | 0.17 | -- | -- | |
| l | 1C | -20306 | 1880 | 163 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.14 | 0.17 | -- | -- | |
| l | 1D | -20307 | 1880 | 163 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.15 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -20306 | 1880 | 165 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.14 | 0.17 | -- | -- | |
| l | 1J | -20307 | 1880 | 165 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.15 | 0.17 | -- | -- | |
| l | 1K | -20306 | 1880 | 163 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.14 | 0.17 | -- | -- | |
| l | 1L | -20307 | 1880 | 163 | 32 | -- | -- | -- | -2.86 | 0.17 | 1.00 | 0.26 | 3.15 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -55739 | 3232 | 607 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1B | -55740 | 3232 | 607 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1C | -55739 | 3232 | 606 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1D | -55740 | 3232 | 606 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -55739 | 3233 | 608 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1J | -55741 | 3233 | 608 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1K | -55739 | 3233 | 605 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1L | -55741 | 3233 | 605 | 7 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.23 | 3.94 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -40362 | 5002 | 592 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1B | -40362 | 5002 | 592 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1C | -40362 | 5002 | 591 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1D | -40362 | 5002 | 591 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40361 | 5002 | 592 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1J | -40363 | 5002 | 592 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1K | -40361 | 5002 | 591 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1L | -40363 | 5002 | 591 | -673 | -- | -- | -- | -5.68 | 0.33 | 1.00 | 0.70 | 5.26 | 0.27 | 0.08 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -113291 | 12800 | 799 | -5296 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1B | -113294 | 12800 | 799 | -5298 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1C | -113291 | 12800 | 794 | -5296 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1D | -113294 | 12800 | 794 | -5298 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -113289 | 12803 | 803 | -5295 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1J | -113295 | 12803 | 803 | -5299 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1K | -113289 | 12803 | 791 | -5295 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1L | -113295 | 12803 | 791 | -5299 | -- | -- | -- | -3.29 | 0.19 | 1.00 | 0.37 | 3.46 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -492156 | 30322 | -2063 | 50896 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1B | -492176 | 30322 | -2063 | 50887 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1C | -492156 | 30322 | -2077 | 50896 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1D | -492176 | 30322 | -2077 | 50887 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -492141 | 30330 | -2054 | 50903 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1J | -492190 | 30330 | -2054 | 50880 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1K | -492141 | 30330 | -2086 | 50903 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1L | -492190 | 30330 | -2086 | 50880 | -- | -- | -- | -4.35 | 0.26 | 1.00 | 0.27 | 4.26 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -168800 | 6568 | -4191 | 19860 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.07 | |
| 0 | 1B | -168809 | 6568 | -4191 | 19859 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.07 | |
| 0 | 1C | -168800 | 6568 | -4201 | 19860 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.07 | |
| 0 | 1D | -168809 | 6568 | -4201 | 19859 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -168793 | 6569 | -4185 | 19860 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.07 | |
| 0 | 1J | -168815 | 6569 | -4185 | 19858 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.07 | |
| 0 | 1K | -168793 | 6569 | -4207 | 19860 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.08 | |
| 0 | 1L | -168815 | 6569 | -4207 | 19858 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.19 | 4.64 | 0.08 | 0.10 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -61560 | 2591 | -12 | 152 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1B | -61562 | 2591 | -12 | 152 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1C | -61560 | 2591 | -28 | 152 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1D | -61562 | 2591 | -28 | 152 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -61559 | 2593 | -1 | 152 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1J | -61563 | 2593 | -1 | 153 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1K | -61559 | 2593 | -38 | 152 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1L | -61563 | 2593 | -38 | 153 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.14 | 3.51 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -249798 | 17950 | -541 | -759 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1B | -249845 | 17950 | -541 | -760 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1C | -249798 | 17950 | -567 | -759 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1D | -249845 | 17950 | -567 | -760 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -249765 | 17960 | -523 | -759 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1J | -249878 | 17960 | -523 | -760 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1K | -249765 | 17960 | -585 | -759 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1L | -249878 | 17960 | -585 | -760 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.29 | 3.99 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -71503 | 9151 | -609 | 712 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1B | -71511 | 9151 | -609 | 713 | -- | -- | -- | -4.00 | 0.24 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1C | -71503 | 9151 | -613 | 712 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1D | -71511 | 9151 | -613 | 713 | -- | -- | -- | -4.00 | 0.24 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -71497 | 9152 | -607 | 712 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1J | -71517 | 9152 | -607 | 713 | -- | -- | -- | -4.00 | 0.24 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1K | -71497 | 9152 | -615 | 712 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1L | -71517 | 9152 | -615 | 713 | -- | -- | -- | -4.00 | 0.24 | 1.00 | 0.51 | 4.00 | 0.26 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -69885 | 7248 | -1190 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1B | -69886 | 7248 | -1190 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1C | -69885 | 7248 | -1191 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1D | -69886 | 7248 | -1191 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -69885 | 7248 | -1189 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1J | -69886 | 7248 | -1189 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1K | -69885 | 7248 | -1191 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1L | -69886 | 7248 | -1191 | -680 | -- | -- | -- | -3.13 | 0.18 | 1.00 | 0.32 | 3.35 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -217923 | 20114 | -347 | -2162 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1B | -217925 | 20114 | -347 | -2162 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1C | -217923 | 20114 | -349 | -2162 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1D | -217925 | 20114 | -349 | -2162 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -217921 | 20117 | -345 | -2163 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1J | -217926 | 20117 | -345 | -2162 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1K | -217921 | 20117 | -351 | -2163 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1L | -217926 | 20117 | -351 | -2162 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.33 | 3.69 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -82268 | 7791 | -68 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1B | -82268 | 7791 | -68 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1C | -82268 | 7791 | -69 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1D | -82268 | 7791 | -69 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -82267 | 7792 | -68 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1J | -82269 | 7792 | -68 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1K | -82267 | 7792 | -69 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1L | -82269 | 7792 | -69 | -1327 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.38 | 4.05 | 0.19 | 0.02 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 546.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -25377 | 1398 | -107 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1B | -25377 | 1398 | -107 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1C | -25377 | 1398 | -107 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1D | -25377 | 1398 | -107 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -25377 | 1398 | -106 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1J | -25378 | 1398 | -106 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1K | -25377 | 1398 | -107 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1L | -25378 | 1398 | -107 | 188 | -- -- | -- | -2.60 | 0.15 | 1.00 | 0.14 | 2.95 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -267219 | 21480 | 2321 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1B | -267226 | 21480 | 2321 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1C | -267219 | 21480 | 2320 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1D | -267226 | 21480 | 2320 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -267214 | 21483 | 2322 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1J | -267231 | 21483 | 2322 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1K | -267214 | 21483 | 2319 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1L | -267231 | 21483 | 2319 | -572 | -- -- | -- | -3.90 | 0.23 | 1.00 | 0.31 | 3.92 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -76050 | 6829 | 446 | 902 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1B | -76052 | 6829 | 446 | 903 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1C | -76050 | 6829 | 445 | 902 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1D | -76052 | 6829 | 445 | 903 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -76049 | 6830 | 446 | 902 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1J | -76053 | 6830 | 446 | 903 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1K | -76049 | 6830 | 445 | 902 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1L | -76053 | 6830 | 445 | 903 | -- -- | -- | -4.19 | 0.25 | 1.00 | 0.38 | 4.14 | 0.18 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -43834 | 5314 | 922 | 614 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1B | -43837 | 5314 | 922 | 615 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1C | -43834 | 5314 | 922 | 614 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1D | -43837 | 5314 | 922 | 615 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -43832 | 5315 | 922 | 614 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1J | -43839 | 5315 | 922 | 615 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1K | -43832 | 5315 | 921 | 614 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1L | -43839 | 5315 | 921 | 615 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.34 | 2.79 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -158535 | 18180 | 454 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1B | -158548 | 18180 | 454 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1C | -158535 | 18180 | 453 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1D | -158548 | 18180 | 453 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -158526 | 18185 | 454 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1J | -158557 | 18185 | 454 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1K | -158526 | 18185 | 453 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1L | -158557 | 18185 | 453 | 898 | -- | -- | -- | -3.32 | 0.29 | 1.00 | 0.38 | 3.15 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -65959 | 6784 | 173 | -2510 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1B | -65968 | 6784 | 173 | -2513 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1C | -65959 | 6784 | 173 | -2510 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1D | -65968 | 6784 | 173 | -2513 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -65954 | 6785 | 173 | -2509 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1J | -65974 | 6785 | 173 | -2514 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1K | -65954 | 6785 | 173 | -2509 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1L | -65974 | 6785 | 173 | -2514 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.38 | 3.41 | 0.22 | 0.05 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -33327 | 7718 | -1818 | -187 | -- | -- | -- | -2.62 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1B | -33348 | 7718 | -1818 | -187 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1C | -33327 | 7718 | -1824 | -187 | -- | -- | -- | -2.62 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1D | -33348 | 7718 | -1824 | -187 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -33312 | 7724 | -1814 | -187 | -- | -- | -- | -2.62 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1J | -33363 | 7724 | -1814 | -188 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1K | -33312 | 7724 | -1828 | -187 | -- | -- | -- | -2.62 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1L | -33363 | 7724 | -1828 | -188 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.61 | 2.97 | 0.41 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -217747 | 23821 | -426 | 1041 | -- | -- | -- | -3.97 | 0.23 | 1.00 | 0.43 | 3.98 | 0.22 | -- | -- | |
| ½ | 1B | -217878 | 23821 | -426 | 1038 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.43 | 3.98 | 0.22 | -- | -- | |
| ½ | 1C | -217747 | 23821 | -449 | 1041 | -- | -- | -- | -3.97 | 0.23 | 1.00 | 0.43 | 3.98 | 0.22 | -- | -- | |
| ½ | 1D | -217878 | 23821 | -449 | 1038 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.43 | 3.98 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -217656 | 23847 | -410 | 1042 | -- | -- | -- | -3.97 | 0.23 | 1.00 | 0.44 | 3.98 | 0.22 | -- | -- | |
| ½ | 1J | -217969 | 23847 | -410 | 1037 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.44 | 3.98 | 0.22 | -- | -- | |
| ½ | 1K | -217656 | 23847 | -465 | 1042 | -- | -- | -- | -3.97 | 0.23 | 1.00 | 0.44 | 3.98 | 0.22 | -- | -- | |
| ½ | 1L | -217969 | 23847 | -465 | 1037 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.44 | 3.98 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -62684 | 2459 | 1145 | -530 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1B | -62703 | 2459 | 1145 | -531 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1C | -62684 | 2459 | 1142 | -530 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1D | -62703 | 2459 | 1142 | -531 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -62671 | 2463 | 1148 | -529 | -- | -- | -- | -4.71 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1J | -62716 | 2463 | 1148 | -532 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1K | -62671 | 2463 | 1140 | -529 | -- | -- | -- | -4.71 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1L | -62716 | 2463 | 1140 | -532 | -- | -- | -- | -4.72 | 0.28 | 1.00 | 0.19 | 4.54 | 0.08 | 0.02 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -57402 | 5375 | -2569 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1B | -57414 | 5375 | -2569 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1C | -57402 | 5375 | -2573 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1D | -57414 | 5375 | -2573 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -57394 | 5379 | -2566 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1J | -57422 | 5379 | -2566 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1K | -57394 | 5379 | -2575 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1L | -57422 | 5379 | -2575 | -2079 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.28 | 3.23 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -129698 | 8169 | 2645 | -2022 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1B | -129724 | 8169 | 2645 | -2022 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1C | -129698 | 8169 | 2638 | -2022 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1D | -129724 | 8169 | 2638 | -2022 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -129679 | 8186 | 2649 | -2021 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1J | -129742 | 8186 | 2649 | -2023 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1K | -129679 | 8186 | 2633 | -2021 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1L | -129742 | 8186 | 2633 | -2023 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.21 | 3.51 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -67658 | 2817 | 156 | -152 | -- | -- | -- | -4.04 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1B | -67668 | 2817 | 156 | -151 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1C | -67658 | 2817 | 154 | -152 | -- | -- | -- | -4.04 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1D | -67668 | 2817 | 154 | -151 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -67651 | 2828 | 156 | -152 | -- | -- | -- | -4.04 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1J | -67675 | 2828 | 156 | -151 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1K | -67651 | 2828 | 153 | -152 | -- | -- | -- | -4.04 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1L | -67675 | 2828 | 153 | -151 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.17 | 4.03 | 0.08 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -94392 | 5946 | -1644 | -961 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1B | -94400 | 5946 | -1644 | -962 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1C | -94392 | 5946 | -1650 | -961 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1D | -94400 | 5946 | -1650 | -962 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -94387 | 5953 | -1641 | -961 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1J | -94405 | 5953 | -1641 | -963 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1K | -94387 | 5953 | -1654 | -961 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1L | -94405 | 5953 | -1654 | -963 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.17 | 2.74 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -223111 | 9810 | -920 | 8325 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1B | -223143 | 9810 | -920 | 8323 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1C | -223111 | 9810 | -928 | 8325 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1D | -223143 | 9810 | -928 | 8323 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -223088 | 9840 | -914 | 8327 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1J | -223166 | 9840 | -914 | 8322 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1K | -223088 | 9840 | -934 | 8327 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1L | -223166 | 9840 | -934 | 8322 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.14 | 3.12 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -133821 | 10568 | -2143 | 13762 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1B | -133858 | 10568 | -2143 | 13770 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1C | -133821 | 10568 | -2146 | 13762 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1D | -133858 | 10568 | -2146 | 13770 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -133795 | 10586 | -2142 | 13757 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1J | -133884 | 10586 | -2142 | 13775 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1K | -133795 | 10586 | -2147 | 13757 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1L | -133884 | 10586 | -2147 | 13775 | -- | -- | -- | -3.93 | 0.34 | 1.00 | 0.31 | 3.61 | 0.17 | 0.10 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6245 | 289 | -29 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1B | -6245 | 289 | -29 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1C | -6245 | 289 | -31 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1D | -6245 | 289 | -31 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6245 | 289 | -29 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1J | -6246 | 289 | -29 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1K | -6245 | 289 | -31 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1L | -6246 | 289 | -31 | 0 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.12 | 2.64 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -70971 | 8936 | 181 | -233 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1B | -70988 | 8936 | 181 | -234 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1C | -70971 | 8936 | 173 | -233 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1D | -70988 | 8936 | 173 | -234 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -70959 | 8941 | 187 | -233 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1J | -71001 | 8941 | 187 | -234 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1K | -70959 | 8941 | 167 | -233 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1L | -71001 | 8941 | 167 | -234 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.46 | 3.38 | 0.27 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -12582 | 2414 | -70 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1B | -12585 | 2414 | -70 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1C | -12582 | 2414 | -71 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1D | -12585 | 2414 | -71 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -12580 | 2416 | -70 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1J | -12587 | 2416 | -70 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1K | -12580 | 2416 | -72 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1L | -12587 | 2416 | -72 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.68 | 3.32 | 0.41 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -22223 | 3560 | 19 | 0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.58 | 3.70 | 0.31 | -- | -- | |
| l | 1B | -22232 | 3560 | 19 | 0 | -- | -- | -- | -3.61 | 0.21 | 1.00 | 0.58 | 3.70 | 0.31 | -- | -- | |
| l | 1C | -22223 | 3560 | 14 | 0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.58 | 3.70 | 0.31 | -- | -- | |
| l | 1D | -22232 | 3560 | 14 | 0 | -- | -- | -- | -3.61 | 0.21 | 1.00 | 0.58 | 3.70 | 0.31 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -22218 | 3574 | 23 | 0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.58 | 3.70 | 0.31 | -- | -- | |
| l | 1J | -22238 | 3574 | 23 | 0 | -- | -- | -- | -3.61 | 0.21 | 1.00 | 0.58 | 3.71 | 0.31 | -- | -- | |
| l | 1K | -22218 | 3574 | 10 | 0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.58 | 3.70 | 0.31 | -- | -- | |
| l | 1L | -22238 | 3574 | 10 | 0 | -- | -- | -- | -3.61 | 0.21 | 1.00 | 0.58 | 3.71 | 0.31 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -93556 | 15905 | 723 | 0 | -- | -- | -- | -5.06 | 0.30 | 1.00 | 0.86 | 4.79 | 0.36 | -- | -- | |
| ½ | 1B | -93683 | 15905 | 723 | 0 | -- | -- | -- | -5.07 | 0.30 | 1.00 | 0.86 | 4.80 | 0.36 | -- | -- | |
| ½ | 1C | -93556 | 15905 | 709 | 0 | -- | -- | -- | -5.06 | 0.30 | 1.00 | 0.86 | 4.79 | 0.36 | -- | -- | |
| ½ | 1D | -93683 | 15905 | 709 | 0 | -- | -- | -- | -5.07 | 0.30 | 1.00 | 0.86 | 4.80 | 0.36 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -93467 | 15967 | 733 | 0 | -- | -- | -- | -5.05 | 0.30 | 1.00 | 0.86 | 4.79 | 0.36 | -- | -- | |
| ½ | 1J | -93772 | 15967 | 733 | 0 | -- | -- | -- | -5.07 | 0.30 | 1.00 | 0.86 | 4.80 | 0.36 | -- | -- | |
| ½ | 1K | -93467 | 15967 | 699 | 0 | -- | -- | -- | -5.05 | 0.30 | 1.00 | 0.86 | 4.79 | 0.36 | -- | -- | |
| ½ | 1L | -93772 | 15967 | 699 | 0 | -- | -- | -- | -5.07 | 0.30 | 1.00 | 0.86 | 4.80 | 0.36 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -21918 | 251 | 249 | 0 | -- | -- | -- | -4.74 | 0.28 | 1.00 | 0.05 | 4.56 | 0.02 | 0.00 | 0.04 | |
| 0 | 1B | -21962 | 251 | 249 | 0 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.05 | 4.56 | 0.02 | 0.00 | 0.04 | |
| 0 | 1C | -21918 | 251 | 243 | 0 | -- | -- | -- | -4.74 | 0.28 | 1.00 | 0.05 | 4.56 | 0.02 | 0.00 | 0.04 | |
| 0 | 1D | -21962 | 251 | 243 | 0 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.05 | 4.56 | 0.02 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21887 | 256 | 254 | 0 | -- | -- | -- | -4.73 | 0.28 | 1.00 | 0.06 | 4.55 | 0.02 | 0.00 | 0.04 | |
| 0 | 1J | -21993 | 256 | 254 | 0 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.06 | 4.57 | 0.02 | 0.00 | 0.04 | |
| 0 | 1K | -21887 | 256 | 238 | 0 | -- | -- | -- | -4.73 | 0.28 | 1.00 | 0.06 | 4.55 | 0.02 | 0.00 | 0.04 | |
| 0 | 1L | -21993 | 256 | 238 | 0 | -- | -- | -- | -4.76 | 0.28 | 1.00 | 0.06 | 4.57 | 0.02 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -71002 | 11447 | -3891 | 2365 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.55 | 3.58 | 0.31 | -- | -- | |
| l | 1B | -71011 | 11447 | -3891 | 2364 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.55 | 3.58 | 0.31 | -- | -- | |
| l | 1C | -71002 | 11447 | -3898 | 2365 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.55 | 3.58 | 0.31 | -- | -- | |
| l | 1D | -71011 | 11447 | -3898 | 2364 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.55 | 3.58 | 0.31 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -70995 | 11504 | -3886 | 2366 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.56 | 3.58 | 0.31 | -- | -- | |
| l | 1J | -71018 | 11504 | -3886 | 2363 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.56 | 3.58 | 0.31 | -- | -- | |
| l | 1K | -70995 | 11504 | -3902 | 2366 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.56 | 3.58 | 0.31 | -- | -- | |
| l | 1L | -71018 | 11504 | -3902 | 2363 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.56 | 3.58 | 0.31 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -251109 | 25131 | -1304 | 683 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.48 | 4.63 | 0.21 | -- | -- | |
| ½ | 1B | -251551 | 25131 | -1304 | 720 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.48 | 4.64 | 0.21 | -- | -- | |
| ½ | 1C | -251109 | 25131 | -1312 | 683 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.48 | 4.63 | 0.21 | -- | -- | |
| ½ | 1D | -251551 | 25131 | -1312 | 720 | -- | -- | -- | -4.85 | 0.29 | 1.00 | 0.48 | 4.64 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -250800 | 25340 | -1298 | 657 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.49 | 4.63 | 0.21 | -- | -- | |
| ½ | 1J | -251860 | 25340 | -1298 | 746 | -- | -- | -- | -4.86 | 0.29 | 1.00 | 0.49 | 4.64 | 0.21 | -- | -- | |
| ½ | 1K | -250800 | 25340 | -1318 | 657 | -- | -- | -- | -4.84 | 0.28 | 1.00 | 0.49 | 4.63 | 0.21 | -- | -- | |
| ½ | 1L | -251860 | 25340 | -1318 | 746 | -- | -- | -- | -4.86 | 0.29 | 1.00 | 0.49 | 4.64 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -117153 | 12551 | 1140 | -5820 | -- | -- | -- | -5.67 | 0.33 | 1.00 | 0.61 | 5.26 | 0.23 | 0.07 | 0.04 | |
| 0 | 1B | -117409 | 12551 | 1140 | -5786 | -- | -- | -- | -5.69 | 0.33 | 1.00 | 0.61 | 5.27 | 0.23 | 0.07 | 0.04 | |
| 0 | 1C | -117153 | 12551 | 1135 | -5820 | -- | -- | -- | -5.67 | 0.33 | 1.00 | 0.61 | 5.26 | 0.23 | 0.07 | 0.04 | |
| 0 | 1D | -117409 | 12551 | 1135 | -5786 | -- | -- | -- | -5.69 | 0.33 | 1.00 | 0.61 | 5.27 | 0.23 | 0.07 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -116975 | 12680 | 1143 | -5843 | -- | -- | -- | -5.67 | 0.33 | 1.00 | 0.61 | 5.25 | 0.23 | 0.07 | 0.04 | |
| 0 | 1J | -117588 | 12680 | 1143 | -5763 | -- | -- | -- | -5.70 | 0.34 | 1.00 | 0.61 | 5.27 | 0.23 | 0.07 | 0.04 | |
| 0 | 1K | -116975 | 12680 | 1132 | -5843 | -- | -- | -- | -5.67 | 0.33 | 1.00 | 0.61 | 5.25 | 0.23 | 0.07 | 0.04 | |
| 0 | 1L | -117588 | 12680 | 1132 | -5763 | -- | -- | -- | -5.70 | 0.34 | 1.00 | 0.61 | 5.27 | 0.23 | 0.07 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -178329 | 12174 | -1035 | -16986 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.22 | 3.44 | 0.13 | -- | -- | |
| l | 1B | -178635 | 12174 | -1035 | -16938 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.22 | 3.45 | 0.13 | -- | -- | |
| l | 1C | -178329 | 12174 | -1237 | -16986 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.22 | 3.44 | 0.13 | -- | -- | |
| l | 1D | -178635 | 12174 | -1237 | -16938 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.22 | 3.45 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -178116 | 12319 | -894 | -17019 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.22 | 3.44 | 0.13 | -- | -- | |
| l | 1J | -178849 | 12319 | -894 | -16904 | -- | -- | -- | -3.27 | 0.19 | 1.00 | 0.22 | 3.45 | 0.13 | -- | -- | |
| l | 1K | -178116 | 12319 | -1378 | -17019 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.22 | 3.44 | 0.13 | -- | -- | |
| l | 1L | -178849 | 12319 | -1378 | -16904 | -- | -- | -- | -3.27 | 0.19 | 1.00 | 0.22 | 3.45 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -517503 | 31959 | -3149 | 30799 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.16 | 0.13 | -- | -- | |
| ½ | 1B | -517912 | 31959 | -3149 | 30479 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.16 | 0.12 | -- | -- | |
| ½ | 1C | -517503 | 31959 | -3262 | 30799 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.16 | 0.13 | -- | -- | |
| ½ | 1D | -517912 | 31959 | -3262 | 30479 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.16 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -517217 | 32494 | -3069 | 31022 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.15 | 0.13 | -- | -- | |
| ½ | 1J | -518198 | 32494 | -3069 | 30256 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.16 | 0.13 | -- | -- | |
| ½ | 1K | -517217 | 32494 | -3342 | 31022 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.15 | 0.13 | -- | -- | |
| ½ | 1L | -518198 | 32494 | -3342 | 30256 | -- | -- | -- | -4.21 | 0.25 | 1.00 | 0.26 | 4.16 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -265990 | 27690 | -948 | 21123 | -- | -- | -- | -4.90 | 0.29 | 1.00 | 0.51 | 4.68 | 0.22 | 0.04 | 0.01 | |
| 0 | 1B | -266161 | 27690 | -948 | 21069 | -- | -- | -- | -4.90 | 0.29 | 1.00 | 0.51 | 4.68 | 0.22 | 0.04 | 0.01 | |
| 0 | 1C | -265990 | 27690 | -987 | 21123 | -- | -- | -- | -4.90 | 0.29 | 1.00 | 0.51 | 4.68 | 0.22 | 0.04 | 0.01 | |
| 0 | 1D | -266161 | 27690 | -987 | 21069 | -- | -- | -- | -4.90 | 0.29 | 1.00 | 0.51 | 4.68 | 0.22 | 0.04 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -265870 | 27930 | -921 | 21160 | -- | -- | -- | -4.90 | 0.29 | 1.00 | 0.51 | 4.67 | 0.22 | 0.04 | 0.01 | |
| 0 | 1J | -266280 | 27930 | -921 | 21031 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.51 | 4.68 | 0.22 | 0.04 | 0.01 | |
| 0 | 1K | -265870 | 27930 | -1015 | 21160 | -- | -- | -- | -4.90 | 0.29 | 1.00 | 0.51 | 4.67 | 0.22 | 0.04 | 0.01 | |
| 0 | 1L | -266280 | 27930 | -1015 | 21031 | -- | -- | -- | -4.91 | 0.29 | 1.00 | 0.51 | 4.68 | 0.22 | 0.04 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -133238 | 3569 | 4743 | -11570 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1B | -133243 | 3569 | 4743 | -11570 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1C | -133238 | 3569 | 4737 | -11570 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1D | -133243 | 3569 | 4737 | -11570 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -133235 | 3572 | 4747 | -11569 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1J | -133246 | 3572 | 4747 | -11571 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1K | -133235 | 3572 | 4732 | -11569 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1L | -133246 | 3572 | 4732 | -11571 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.11 | 4.20 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -571579 | 34982 | 10716 | -17490 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1B | -571621 | 34982 | 10716 | -17499 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1C | -571579 | 34982 | 10706 | -17490 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1D | -571621 | 34982 | 10706 | -17499 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -571550 | 34994 | 10723 | -17483 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1J | -571650 | 34994 | 10723 | -17506 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1K | -571550 | 34994 | 10698 | -17483 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1L | -571650 | 34994 | 10698 | -17506 | -- | -- | -- | -4.59 | 0.27 | 1.00 | 0.28 | 4.44 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -124323 | 4628 | -147 | 575 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1B | -124335 | 4628 | -147 | 576 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1C | -124323 | 4628 | -149 | 575 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1D | -124335 | 4628 | -149 | 576 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -124314 | 4631 | -146 | 574 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1J | -124343 | 4631 | -146 | 577 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1K | -124314 | 4631 | -150 | 574 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1L | -124343 | 4631 | -150 | 577 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.15 | 4.01 | 0.07 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -38307 | 10637 | 340 | -243 | -- | -- | -- | -4.09 | 0.24 | 1.00 | 1.14 | 4.07 | 0.56 | -- | -- | |
| l | 1B | -38397 | 10637 | 340 | -245 | -- | -- | -- | -4.10 | 0.24 | 1.00 | 1.14 | 4.08 | 0.56 | -- | -- | |
| l | 1C | -38307 | 10637 | 312 | -243 | -- | -- | -- | -4.09 | 0.24 | 1.00 | 1.14 | 4.07 | 0.56 | -- | -- | |
| l | 1D | -38397 | 10637 | 312 | -245 | -- | -- | -- | -4.10 | 0.24 | 1.00 | 1.14 | 4.08 | 0.56 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -38243 | 10642 | 360 | -241 | -- | -- | -- | -4.09 | 0.24 | 1.00 | 1.14 | 4.07 | 0.56 | -- | -- | |
| l | 1J | -38461 | 10642 | 360 | -247 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 1.14 | 4.08 | 0.56 | -- | -- | |
| l | 1K | -38243 | 10642 | 292 | -241 | -- | -- | -- | -4.09 | 0.24 | 1.00 | 1.14 | 4.07 | 0.56 | -- | -- | |
| l | 1L | -38461 | 10642 | 292 | -247 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 1.14 | 4.08 | 0.56 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -126425 | 23991 | 1246 | 393 | -- | -- | -- | -5.52 | 0.32 | 1.00 | 1.05 | 5.14 | 0.41 | -- | -- | |
| ½ | 1B | -126695 | 23991 | 1246 | 394 | -- | -- | -- | -5.53 | 0.33 | 1.00 | 1.05 | 5.15 | 0.41 | -- | -- | |
| ½ | 1C | -126425 | 23991 | 1112 | 393 | -- | -- | -- | -5.52 | 0.32 | 1.00 | 1.05 | 5.14 | 0.41 | -- | -- | |
| ½ | 1D | -126695 | 23991 | 1112 | 394 | -- | -- | -- | -5.53 | 0.33 | 1.00 | 1.05 | 5.15 | 0.41 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -126236 | 24045 | 1341 | 393 | -- | -- | -- | -5.51 | 0.32 | 1.00 | 1.05 | 5.13 | 0.41 | -- | -- | |
| ½ | 1J | -126884 | 24045 | 1341 | 395 | -- | -- | -- | -5.54 | 0.33 | 1.00 | 1.05 | 5.16 | 0.41 | -- | -- | |
| ½ | 1K | -126236 | 24045 | 1018 | 393 | -- | -- | -- | -5.51 | 0.32 | 1.00 | 1.05 | 5.13 | 0.41 | -- | -- | |
| ½ | 1L | -126884 | 24045 | 1018 | 395 | -- | -- | -- | -5.54 | 0.33 | 1.00 | 1.05 | 5.16 | 0.41 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -46740 | 2692 | 220 | 0 | -- | -- | -- | -5.26 | 0.31 | 1.00 | 0.30 | 4.95 | 0.12 | 0.00 | 0.02 | |
| 0 | 1B | -46942 | 2692 | 220 | 0 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.30 | 4.96 | 0.12 | 0.00 | 0.02 | |
| 0 | 1C | -46740 | 2692 | 162 | 0 | -- | -- | -- | -5.26 | 0.31 | 1.00 | 0.30 | 4.95 | 0.12 | 0.00 | 0.01 | |
| 0 | 1D | -46942 | 2692 | 162 | 0 | -- | -- | -- | -5.29 | 0.31 | 1.00 | 0.30 | 4.96 | 0.12 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46599 | 2763 | 261 | 0 | -- | -- | -- | -5.25 | 0.31 | 1.00 | 0.31 | 4.94 | 0.13 | 0.00 | 0.02 | |
| 0 | 1J | -47083 | 2763 | 261 | 0 | -- | -- | -- | -5.30 | 0.31 | 1.00 | 0.31 | 4.98 | 0.13 | 0.00 | 0.02 | |
| 0 | 1K | -46599 | 2763 | 122 | 0 | -- | -- | -- | -5.25 | 0.31 | 1.00 | 0.31 | 4.94 | 0.13 | 0.00 | 0.01 | |
| 0 | 1L | -47083 | 2763 | 122 | 0 | -- | -- | -- | -5.30 | 0.31 | 1.00 | 0.31 | 4.98 | 0.13 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 118 Descrizione: Maschio murario n. 118 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -34132 | 5516 | 270 | -48 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1B | -34162 | 5516 | 270 | -49 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1C | -34132 | 5516 | 185 | -48 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1D | -34162 | 5516 | 185 | -49 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -34111 | 5530 | 329 | -47 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1J | -34183 | 5530 | 329 | -50 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1K | -34111 | 5530 | 125 | -47 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1L | -34183 | 5530 | 125 | -50 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.48 | 3.24 | 0.30 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -132991 | 25931 | 1600 | -34 | -- | -- | -- | -4.23 | 0.25 | 1.00 | 0.82 | 4.17 | 0.40 | -- | -- | |
| ½ | 1B | -133149 | 25931 | 1600 | -33 | -- | -- | -- | -4.23 | 0.25 | 1.00 | 0.82 | 4.17 | 0.39 | -- | -- | |
| ½ | 1C | -132991 | 25931 | 1502 | -34 | -- | -- | -- | -4.23 | 0.25 | 1.00 | 0.82 | 4.17 | 0.40 | -- | -- | |
| ½ | 1D | -133149 | 25931 | 1502 | -33 | -- | -- | -- | -4.23 | 0.25 | 1.00 | 0.82 | 4.17 | 0.39 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -132881 | 26100 | 1668 | -35 | -- | -- | -- | -4.22 | 0.25 | 1.00 | 0.83 | 4.17 | 0.40 | -- | -- | |
| ½ | 1J | -133260 | 26100 | 1668 | -32 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.83 | 4.18 | 0.40 | -- | -- | |
| ½ | 1K | -132881 | 26100 | 1433 | -35 | -- | -- | -- | -4.22 | 0.25 | 1.00 | 0.83 | 4.17 | 0.40 | -- | -- | |
| ½ | 1L | -133260 | 26100 | 1433 | -32 | -- | -- | -- | -4.24 | 0.25 | 1.00 | 0.83 | 4.18 | 0.40 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -49957 | 11969 | 185 | -658 | -- | -- | -- | -4.37 | 0.26 | 1.00 | 1.05 | 4.27 | 0.49 | 0.03 | 0.01 | |
| 0 | 1B | -50036 | 11969 | 185 | -647 | -- | -- | -- | -4.37 | 0.26 | 1.00 | 1.05 | 4.28 | 0.49 | 0.03 | 0.01 | |
| 0 | 1C | -49957 | 11969 | 162 | -658 | -- | -- | -- | -4.37 | 0.26 | 1.00 | 1.05 | 4.27 | 0.49 | 0.03 | 0.01 | |
| 0 | 1D | -50036 | 11969 | 162 | -647 | -- | -- | -- | -4.37 | 0.26 | 1.00 | 1.05 | 4.28 | 0.49 | 0.03 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49902 | 12061 | 201 | -666 | -- | -- | -- | -4.36 | 0.26 | 1.00 | 1.05 | 4.27 | 0.49 | 0.03 | 0.01 | |
| 0 | 1J | -50091 | 12061 | 201 | -639 | -- | -- | -- | -4.38 | 0.26 | 1.00 | 1.05 | 4.28 | 0.49 | 0.03 | 0.01 | |
| 0 | 1K | -49902 | 12061 | 147 | -666 | -- | -- | -- | -4.36 | 0.26 | 1.00 | 1.05 | 4.27 | 0.49 | 0.03 | 0.01 | |
| 0 | 1L | -50091 | 12061 | 147 | -639 | -- | -- | -- | -4.38 | 0.26 | 1.00 | 1.05 | 4.28 | 0.49 | 0.03 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 546.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -19880 | 1450 | 108 | 0 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.24 | 3.44 | 0.14 | -- | -- | |
| l | 1B | -20054 | 1450 | 108 | 0 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.24 | 3.46 | 0.14 | -- | -- | |
| l | 1C | -19880 | 1450 | 9 | 0 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.24 | 3.44 | 0.14 | -- | -- | |
| l | 1D | -20054 | 1450 | 9 | 0 | -- | -- | -- | -3.28 | 0.19 | 1.00 | 0.24 | 3.46 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -19758 | 1500 | 178 | 0 | -- | -- | -- | -3.23 | 0.19 | 1.00 | 0.25 | 3.42 | 0.14 | -- | -- | |
| l | 1J | -20176 | 1500 | 178 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.25 | 3.47 | 0.14 | -- | -- | |
| l | 1K | -19758 | 1500 | -61 | 0 | -- | -- | -- | -3.23 | 0.19 | 1.00 | 0.25 | 3.42 | 0.14 | -- | -- | |
| l | 1L | -20176 | 1500 | -61 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.25 | 3.47 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -69494 | 13606 | 1075 | 0 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.74 | 3.84 | 0.39 | -- | -- | |
| ½ | 1B | -69717 | 13606 | 1075 | 0 | -- | -- | -- | -3.80 | 0.22 | 1.00 | 0.74 | 3.85 | 0.39 | -- | -- | |
| ½ | 1C | -69494 | 13606 | 883 | 0 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.74 | 3.84 | 0.39 | -- | -- | |
| ½ | 1D | -69717 | 13606 | 883 | 0 | -- | -- | -- | -3.80 | 0.22 | 1.00 | 0.74 | 3.85 | 0.39 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -69338 | 13669 | 1210 | 0 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.74 | 3.83 | 0.39 | -- | -- | |
| ½ | 1J | -69873 | 13669 | 1210 | 0 | -- | -- | -- | -3.80 | 0.22 | 1.00 | 0.74 | 3.85 | 0.39 | -- | -- | |
| ½ | 1K | -69338 | 13669 | 748 | 0 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.74 | 3.83 | 0.39 | -- | -- | |
| ½ | 1L | -69873 | 13669 | 748 | 0 | -- | -- | -- | -3.80 | 0.22 | 1.00 | 0.74 | 3.85 | 0.39 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -17270 | 5100 | -65 | 0 | -- | -- | -- | -3.76 | 0.22 | 1.00 | 1.11 | 3.82 | 0.58 | 0.00 | 0.01 | |
| 0 | 1B | -17304 | 5100 | -65 | 0 | -- | -- | -- | -3.77 | 0.22 | 1.00 | 1.11 | 3.83 | 0.58 | 0.00 | 0.01 | |
| 0 | 1C | -17270 | 5100 | -89 | 0 | -- | -- | -- | -3.76 | 0.22 | 1.00 | 1.11 | 3.82 | 0.58 | 0.00 | 0.01 | |
| 0 | 1D | -17304 | 5100 | -89 | 0 | -- | -- | -- | -3.77 | 0.22 | 1.00 | 1.11 | 3.83 | 0.58 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -17247 | 5115 | -48 | 0 | -- | -- | -- | -3.76 | 0.22 | 1.00 | 1.11 | 3.82 | 0.58 | 0.00 | 0.01 | |
| 0 | 1J | -17327 | 5115 | -48 | 0 | -- | -- | -- | -3.77 | 0.22 | 1.00 | 1.11 | 3.83 | 0.58 | 0.00 | 0.01 | |
| 0 | 1K | -17247 | 5115 | -106 | 0 | -- | -- | -- | -3.76 | 0.22 | 1.00 | 1.11 | 3.82 | 0.58 | 0.00 | 0.02 | |
| 0 | 1L | -17327 | 5115 | -106 | 0 | -- | -- | -- | -3.77 | 0.22 | 1.00 | 1.11 | 3.83 | 0.58 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 120 Descrizione: Maschio murario n. 120 verso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -41675 | 1939 | -15 | 3540 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 2.99 | 0.10 | -- | -- | |
| l | 1B | -41687 | 1939 | -15 | 3541 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 3.00 | 0.10 | -- | -- | |
| l | 1C | -41675 | 1939 | -18 | 3540 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 2.99 | 0.10 | -- | -- | |
| l | 1D | -41687 | 1939 | -18 | 3541 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 3.00 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -41666 | 1939 | -14 | 3538 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 2.99 | 0.10 | -- | -- | |
| l | 1J | -41695 | 1939 | -14 | 3542 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 3.00 | 0.10 | -- | -- | |
| l | 1K | -41666 | 1939 | -20 | 3538 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 2.99 | 0.10 | -- | -- | |
| l | 1L | -41695 | 1939 | -20 | 3542 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.14 | 3.00 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -169196 | 9620 | 902 | 3405 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1B | -169296 | 9620 | 902 | 3418 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1C | -169196 | 9620 | 867 | 3405 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1D | -169296 | 9620 | 867 | 3418 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -169126 | 9647 | 927 | 3396 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1J | -169366 | 9647 | 927 | 3426 | -- | -- | -- | -4.22 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1K | -169126 | 9647 | 843 | 3396 | -- | -- | -- | -4.21 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1L | -169366 | 9647 | 843 | 3426 | -- | -- | -- | -4.22 | 0.37 | 1.00 | 0.24 | 3.82 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -43852 | 5371 | -1051 | 1250 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.45 | 3.41 | 0.26 | 0.06 | 0.10 | |
| 0 | 1B | -43885 | 5371 | -1051 | 1249 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.45 | 3.41 | 0.26 | 0.06 | 0.10 | |
| 0 | 1C | -43852 | 5371 | -1068 | 1250 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.45 | 3.41 | 0.26 | 0.06 | 0.10 | |
| 0 | 1D | -43885 | 5371 | -1068 | 1249 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.45 | 3.41 | 0.26 | 0.06 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -43829 | 5379 | -1040 | 1250 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.45 | 3.41 | 0.26 | 0.06 | 0.09 | |
| 0 | 1J | -43908 | 5379 | -1040 | 1249 | -- | -- | -- | -3.68 | 0.32 | 1.00 | 0.45 | 3.42 | 0.26 | 0.06 | 0.09 | |
| 0 | 1K | -43829 | 5379 | -1080 | 1250 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.45 | 3.41 | 0.26 | 0.06 | 0.10 | |
| 0 | 1L | -43908 | 5379 | -1080 | 1249 | -- | -- | -- | -3.68 | 0.32 | 1.00 | 0.45 | 3.42 | 0.26 | 0.06 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 121 Descrizione: Maschio murario n. 121 verso portico
altezza calcolata: 546.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -63526 | 4942 | 3729 | -1490 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1B | -63533 | 4942 | 3729 | -1490 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1C | -63526 | 4942 | 3712 | -1490 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1D | -63533 | 4942 | 3712 | -1490 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -63521 | 4943 | 3740 | -1489 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1J | -63539 | 4943 | 3740 | -1490 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1K | -63521 | 4943 | 3701 | -1489 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1L | -63539 | 4943 | 3701 | -1490 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.19 | 2.54 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -248277 | 21697 | 4867 | 8195 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1B | -248331 | 21697 | 4867 | 8202 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1C | -248277 | 21697 | 4846 | 8195 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1D | -248331 | 21697 | 4846 | 8202 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -248239 | 21710 | 4881 | 8191 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1J | -248369 | 21710 | 4881 | 8206 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1K | -248239 | 21710 | 4832 | 8191 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1L | -248369 | 21710 | 4832 | 8206 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.29 | 3.12 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -72819 | 2851 | 463 | 4776 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1B | -72836 | 2851 | 463 | 4784 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1C | -72819 | 2851 | 460 | 4776 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1D | -72836 | 2851 | 460 | 4784 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -72808 | 2858 | 466 | 4771 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1J | -72847 | 2858 | 466 | 4790 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1K | -72808 | 2858 | 458 | 4771 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1L | -72847 | 2858 | 458 | 4790 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.11 | 2.84 | 0.08 | 0.06 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 122 Descrizione: Maschio murario n. 122 verso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -16198 | 561 | 197 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1B | -16201 | 561 | 197 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1C | -16198 | 561 | 196 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1D | -16201 | 561 | 196 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -16195 | 562 | 198 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1J | -16204 | 562 | 198 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1K | -16195 | 562 | 195 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1L | -16204 | 562 | 195 | 0 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.10 | 3.25 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -240286 | 13618 | 274 | 452 | -- | -- | -- | -4.65 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1B | -240314 | 13618 | 274 | 451 | -- | -- | -- | -4.66 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1C | -240286 | 13618 | 269 | 452 | -- | -- | -- | -4.65 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1D | -240314 | 13618 | 269 | 451 | -- | -- | -- | -4.66 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -240267 | 13626 | 277 | 452 | -- | -- | -- | -4.65 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1J | -240333 | 13626 | 277 | 451 | -- | -- | -- | -4.66 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1K | -240267 | 13626 | 266 | 452 | -- | -- | -- | -4.65 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1L | -240333 | 13626 | 266 | 451 | -- | -- | -- | -4.66 | 0.27 | 1.00 | 0.26 | 4.49 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -46696 | 3067 | -1414 | -3329 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1B | -46703 | 3067 | -1414 | -3331 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1C | -46696 | 3067 | -1415 | -3329 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1D | -46703 | 3067 | -1415 | -3331 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46691 | 3068 | -1414 | -3328 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1J | -46708 | 3068 | -1414 | -3332 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1K | -46691 | 3068 | -1416 | -3328 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1L | -46708 | 3068 | -1416 | -3332 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.28 | 4.24 | 0.13 | 0.16 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 124 Descrizione: Maschio murario n. 124 verso portico
altezza calcolata: 546.00 cm

| P os | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -44419 | 578 | 167 | 0 | -- -- | -- | -3.93 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1B | -44423 | 578 | 167 | 0 | -- -- | -- | -3.93 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1C | -44419 | 578 | 166 | 0 | -- -- | -- | -3.93 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1D | -44423 | 578 | 166 | 0 | -- -- | -- | -3.93 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -44416 | 578 | 168 | 0 | -- -- | -- | -3.93 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1J | -44425 | 578 | 168 | 0 | -- -- | -- | -3.94 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1K | -44416 | 578 | 166 | 0 | -- -- | -- | -3.93 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1L | -44425 | 578 | 166 | 0 | -- -- | -- | -3.94 | 0.23 | 1.00 | 0.05 | 3.95 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -188101 | 8395 | 1150 | 447 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1B | -188132 | 8395 | 1150 | 448 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1C | -188101 | 8395 | 1144 | 447 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1D | -188132 | 8395 | 1144 | 448 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -188080 | 8398 | 1154 | 447 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1J | -188153 | 8398 | 1154 | 448 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1K | -188080 | 8398 | 1140 | 447 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1L | -188153 | 8398 | 1140 | 448 | -- -- | -- | -4.44 | 0.26 | 1.00 | 0.20 | 4.33 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -46400 | 4650 | -1483 | -3865 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1B | -46407 | 4650 | -1483 | -3865 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1C | -46400 | 4650 | -1484 | -3865 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1D | -46407 | 4650 | -1484 | -3865 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46395 | 4652 | -1482 | -3864 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1J | -46412 | 4652 | -1482 | -3865 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1K | -46395 | 4652 | -1485 | -3864 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1L | -46412 | 4652 | -1485 | -3865 | -- -- | -- | -4.11 | 0.24 | 1.00 | 0.41 | 4.08 | 0.20 | 0.19 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 125 Descrizione: Maschio murario n. 125
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -20622 | 869 | 145 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1B | -20629 | 869 | 145 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1C | -20622 | 869 | 143 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1D | -20629 | 869 | 143 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -20618 | 870 | 146 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1J | -20633 | 870 | 146 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1K | -20618 | 870 | 142 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1L | -20633 | 870 | 142 | -0 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.14 | 3.57 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -71456 | 3236 | 558 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1B | -71475 | 3236 | 558 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1C | -71456 | 3236 | 552 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1D | -71475 | 3236 | 552 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -71443 | 3250 | 563 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1J | -71488 | 3250 | 563 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1K | -71443 | 3250 | 547 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1L | -71488 | 3250 | 547 | 0 | -- | -- | -- | -3.96 | 0.23 | 1.00 | 0.18 | 3.97 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -25667 | 41 | 360 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1B | -25672 | 41 | 360 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1C | -25667 | 41 | 359 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1D | -25672 | 41 | 359 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -25664 | 47 | 361 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1J | -25675 | 47 | 361 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1K | -25664 | 47 | 358 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1L | -25675 | 47 | 358 | -0 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.01 | 4.20 | 0.00 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -44306 | 921 | 337 | 2829 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1B | -44327 | 921 | 337 | 2829 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1C | -44306 | 921 | 334 | 2829 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1D | -44327 | 921 | 334 | 2829 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -44292 | 923 | 339 | 2829 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1J | -44341 | 923 | 339 | 2829 | -- | -- | -- | -3.01 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1K | -44292 | 923 | 332 | 2829 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1L | -44341 | 923 | 332 | 2829 | -- | -- | -- | -3.01 | 0.18 | 1.00 | 0.06 | 3.25 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -178405 | 8979 | 1881 | 246 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 3.99 | 0.10 | -- | -- | |
| ½ | 1B | -178461 | 8979 | 1881 | 247 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 3.99 | 0.10 | -- | -- | |
| ½ | 1C | -178405 | 8979 | 1855 | 246 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 3.99 | 0.10 | -- | -- | |
| ½ | 1D | -178461 | 8979 | 1855 | 247 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 3.99 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -178365 | 8998 | 1899 | 245 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 3.99 | 0.10 | -- | -- | |
| ½ | 1J | -178501 | 8998 | 1899 | 248 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 4.00 | 0.10 | -- | -- | |
| ½ | 1K | -178365 | 8998 | 1837 | 245 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 3.99 | 0.10 | -- | -- | |
| ½ | 1L | -178501 | 8998 | 1837 | 248 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.20 | 4.00 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -54362 | 1835 | 1035 | 2148 | -- | -- | -- | -3.68 | 0.22 | 1.00 | 0.12 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1B | -54371 | 1835 | 1035 | 2149 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.12 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1C | -54362 | 1835 | 1031 | 2148 | -- | -- | -- | -3.68 | 0.22 | 1.00 | 0.12 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1D | -54371 | 1835 | 1031 | 2149 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.12 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54356 | 1846 | 1039 | 2147 | -- | -- | -- | -3.68 | 0.22 | 1.00 | 0.13 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1J | -54378 | 1846 | 1039 | 2149 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.13 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1K | -54356 | 1846 | 1028 | 2147 | -- | -- | -- | -3.68 | 0.22 | 1.00 | 0.13 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1L | -54378 | 1846 | 1028 | 2149 | -- | -- | -- | -3.69 | 0.22 | 1.00 | 0.13 | 3.76 | 0.07 | 0.06 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -39657 | 5580 | 106 | -2211 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1B | -39676 | 5580 | 106 | -2212 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1C | -39657 | 5580 | 104 | -2211 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1D | -39676 | 5580 | 104 | -2212 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -39645 | 5586 | 107 | -2211 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1J | -39688 | 5586 | 107 | -2212 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1K | -39645 | 5586 | 103 | -2211 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1L | -39688 | 5586 | 103 | -2212 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.39 | 3.08 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -173235 | 7651 | 744 | 616 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.08 | 0.09 | -- | -- | |
| ½ | 1B | -173299 | 7651 | 744 | 622 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.08 | 0.09 | -- | -- | |
| ½ | 1C | -173235 | 7651 | 733 | 616 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.08 | 0.09 | -- | -- | |
| ½ | 1D | -173299 | 7651 | 733 | 622 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.08 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -173191 | 7678 | 753 | 612 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.08 | 0.09 | -- | -- | |
| ½ | 1J | -173343 | 7678 | 753 | 626 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.09 | 0.09 | -- | -- | |
| ½ | 1K | -173191 | 7678 | 724 | 612 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.08 | 0.09 | -- | -- | |
| ½ | 1L | -173343 | 7678 | 724 | 626 | -- | -- | -- | -4.11 | 0.24 | 1.00 | 0.18 | 4.09 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -69404 | 5215 | 326 | 3222 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1B | -69426 | 5215 | 326 | 3227 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1C | -69404 | 5215 | 322 | 3222 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1D | -69426 | 5215 | 322 | 3227 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -69388 | 5227 | 330 | 3218 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1J | -69442 | 5227 | 330 | 3231 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1K | -69388 | 5227 | 318 | 3218 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1L | -69442 | 5227 | 318 | 3231 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.37 | 4.71 | 0.16 | 0.09 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 128 Descrizione: Maschio murario n. 128 veso portico
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -43128 | 11027 | -376 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1B | -43143 | 11027 | -376 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1C | -43128 | 11027 | -379 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1D | -43143 | 11027 | -379 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -43118 | 11031 | -374 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1J | -43154 | 11031 | -374 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1K | -43118 | 11031 | -382 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1L | -43154 | 11031 | -382 | 24 | -- | -- | -- | -3.17 | 0.19 | 1.00 | 0.81 | 3.38 | 0.48 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -221842 | 32803 | -1548 | 1026 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1B | -221886 | 32803 | -1548 | 1027 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1C | -221842 | 32803 | -1557 | 1026 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1D | -221886 | 32803 | -1557 | 1027 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -221812 | 32831 | -1542 | 1026 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1J | -221916 | 32831 | -1542 | 1027 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1K | -221812 | 32831 | -1563 | 1026 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1L | -221916 | 32831 | -1563 | 1027 | -- | -- | -- | -4.32 | 0.25 | 1.00 | 0.64 | 4.24 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -55666 | 9725 | -265 | -170 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.01 | |
| 0 | 1B | -55683 | 9725 | -265 | -173 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.01 | |
| 0 | 1C | -55666 | 9725 | -269 | -170 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.01 | |
| 0 | 1D | -55683 | 9725 | -269 | -173 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -55654 | 9737 | -263 | -168 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.01 | |
| 0 | 1J | -55696 | 9737 | -263 | -175 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.01 | |
| 0 | 1K | -55654 | 9737 | -271 | -168 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.02 | |
| 0 | 1L | -55696 | 9737 | -271 | -175 | -- | -- | -- | -4.06 | 0.24 | 1.00 | 0.71 | 4.05 | 0.35 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -42235 | 1848 | 320 | 1344 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.14 | 3.44 | 0.08 | -- | -- | |
| l | 1B | -42320 | 1848 | 320 | 1360 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.14 | 3.45 | 0.08 | -- | -- | |
| l | 1C | -42235 | 1848 | 310 | 1344 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.14 | 3.44 | 0.08 | -- | -- | |
| l | 1D | -42320 | 1848 | 310 | 1360 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.14 | 3.45 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -42177 | 1908 | 328 | 1333 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.15 | 3.44 | 0.09 | -- | -- | |
| l | 1J | -42378 | 1908 | 328 | 1372 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.15 | 3.45 | 0.09 | -- | -- | |
| l | 1K | -42177 | 1908 | 302 | 1333 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.15 | 3.44 | 0.09 | -- | -- | |
| l | 1L | -42378 | 1908 | 302 | 1372 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.15 | 3.45 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -94107 | 5611 | 335 | 318 | -- | -- | -- | -3.62 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1B | -94233 | 5611 | 335 | 324 | -- | -- | -- | -3.63 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1C | -94107 | 5611 | 322 | 318 | -- | -- | -- | -3.62 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1D | -94233 | 5611 | 322 | 324 | -- | -- | -- | -3.63 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -94020 | 5684 | 344 | 315 | -- | -- | -- | -3.62 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1J | -94321 | 5684 | 344 | 328 | -- | -- | -- | -3.63 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1K | -94020 | 5684 | 313 | 315 | -- | -- | -- | -3.62 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1L | -94321 | 5684 | 313 | 328 | -- | -- | -- | -3.63 | 0.21 | 1.00 | 0.22 | 3.72 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -51628 | 5790 | 165 | -113 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.98 | 0.22 | 0.00 | 0.01 | |
| 0 | 1B | -51670 | 5790 | 165 | -113 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.99 | 0.22 | 0.00 | 0.01 | |
| 0 | 1C | -51628 | 5790 | 152 | -113 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.98 | 0.22 | 0.00 | 0.01 | |
| 0 | 1D | -51670 | 5790 | 152 | -113 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.99 | 0.22 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51599 | 5816 | 173 | -114 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.98 | 0.23 | 0.00 | 0.01 | |
| 0 | 1J | -51699 | 5816 | 173 | -112 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.99 | 0.22 | 0.00 | 0.01 | |
| 0 | 1K | -51599 | 5816 | 144 | -114 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.98 | 0.23 | 0.00 | 0.01 | |
| 0 | 1L | -51699 | 5816 | 144 | -112 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.45 | 3.99 | 0.22 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -185117 | 17640 | 8209 | 7592 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1B | -185182 | 17640 | 8209 | 7604 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1C | -185117 | 17640 | 8176 | 7592 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1D | -185182 | 17640 | 8176 | 7604 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -185071 | 17678 | 8231 | 7584 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1J | -185227 | 17678 | 8231 | 7613 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1K | -185071 | 17678 | 8153 | 7584 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1L | -185227 | 17678 | 8153 | 7613 | -- | -- | -- | -4.03 | 0.24 | 1.00 | 0.38 | 4.02 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -454560 | 28280 | 6195 | -34888 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1B | -454766 | 28280 | 6195 | -34886 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1C | -454560 | 28280 | 6171 | -34888 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1D | -454766 | 28280 | 6171 | -34886 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -454417 | 28525 | 6212 | -34890 | -- | -- | -- | -4.45 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1J | -454909 | 28525 | 6212 | -34884 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1K | -454417 | 28525 | 6154 | -34890 | -- | -- | -- | -4.45 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1L | -454909 | 28525 | 6154 | -34884 | -- | -- | -- | -4.46 | 0.26 | 1.00 | 0.28 | 4.34 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -215235 | 7445 | 251 | -31934 | -- | -- | -- | -4.82 | 0.28 | 1.00 | 0.17 | 4.62 | 0.07 | 0.09 | 0.00 | |
| 0 | 1B | -215362 | 7445 | 251 | -31987 | -- | -- | -- | -4.82 | 0.28 | 1.00 | 0.17 | 4.62 | 0.07 | 0.09 | 0.00 | |
| 0 | 1C | -215235 | 7445 | 243 | -31934 | -- | -- | -- | -4.82 | 0.28 | 1.00 | 0.17 | 4.62 | 0.07 | 0.09 | 0.00 | |
| 0 | 1D | -215362 | 7445 | 243 | -31987 | -- | -- | -- | -4.82 | 0.28 | 1.00 | 0.17 | 4.62 | 0.07 | 0.09 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -215146 | 7569 | 257 | -31897 | -- | -- | -- | -4.82 | 0.28 | 1.00 | 0.17 | 4.61 | 0.07 | 0.09 | 0.00 | |
| 0 | 1J | -215451 | 7569 | 257 | -32024 | -- | -- | -- | -4.83 | 0.28 | 1.00 | 0.17 | 4.62 | 0.07 | 0.09 | 0.00 | |
| 0 | 1K | -215146 | 7569 | 237 | -31897 | -- | -- | -- | -4.82 | 0.28 | 1.00 | 0.17 | 4.61 | 0.07 | 0.09 | 0.00 | |
| 0 | 1L | -215451 | 7569 | 237 | -32024 | -- | -- | -- | -4.83 | 0.28 | 1.00 | 0.17 | 4.62 | 0.07 | 0.09 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 132 Descrizione: Maschio murario n. 132
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -25495 | 1768 | 268 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.78 | 0.14 | -- | -- | |
| l | 1B | -25502 | 1768 | 268 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.79 | 0.14 | -- | -- | |
| l | 1C | -25495 | 1768 | 268 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.78 | 0.14 | -- | -- | |
| l | 1D | -25502 | 1768 | 268 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.79 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -25489 | 1770 | 269 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.78 | 0.14 | -- | -- | |
| l | 1J | -25508 | 1770 | 269 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.79 | 0.14 | -- | -- | |
| l | 1K | -25489 | 1770 | 267 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.78 | 0.14 | -- | -- | |
| l | 1L | -25508 | 1770 | 267 | 0 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.26 | 3.79 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -109278 | 4625 | 394 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.98 | 0.08 | -- | -- | |
| ½ | 1B | -109326 | 4625 | 394 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.99 | 0.08 | -- | -- | |
| ½ | 1C | -109278 | 4625 | 392 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.98 | 0.08 | -- | -- | |
| ½ | 1D | -109326 | 4625 | 392 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.99 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -109245 | 4653 | 396 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.98 | 0.09 | -- | -- | |
| ½ | 1J | -109360 | 4653 | 396 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.99 | 0.08 | -- | -- | |
| ½ | 1K | -109245 | 4653 | 390 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.98 | 0.09 | -- | -- | |
| ½ | 1L | -109360 | 4653 | 390 | 0 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.17 | 3.99 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -47496 | 2788 | 392 | 0 | -- | -- | -- | -5.19 | 0.31 | 1.00 | 0.30 | 4.89 | 0.12 | 0.00 | 0.03 | |
| 0 | 1B | -47540 | 2788 | 392 | 0 | -- | -- | -- | -5.19 | 0.31 | 1.00 | 0.30 | 4.89 | 0.12 | 0.00 | 0.03 | |
| 0 | 1C | -47496 | 2788 | 391 | 0 | -- | -- | -- | -5.19 | 0.31 | 1.00 | 0.30 | 4.89 | 0.12 | 0.00 | 0.03 | |
| 0 | 1D | -47540 | 2788 | 391 | 0 | -- | -- | -- | -5.19 | 0.31 | 1.00 | 0.30 | 4.89 | 0.12 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47465 | 2804 | 393 | 0 | -- | -- | -- | -5.18 | 0.30 | 1.00 | 0.31 | 4.89 | 0.13 | 0.00 | 0.03 | |
| 0 | 1J | -47572 | 2804 | 393 | 0 | -- | -- | -- | -5.20 | 0.31 | 1.00 | 0.31 | 4.90 | 0.13 | 0.00 | 0.03 | |
| 0 | 1K | -47465 | 2804 | 391 | 0 | -- | -- | -- | -5.18 | 0.30 | 1.00 | 0.31 | 4.89 | 0.13 | 0.00 | 0.03 | |
| 0 | 1L | -47572 | 2804 | 391 | 0 | -- | -- | -- | -5.20 | 0.31 | 1.00 | 0.31 | 4.90 | 0.13 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **5** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri Pt-1P**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 546.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -35276 | 2534 | -1597 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1B | -35284 | 2534 | -1597 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1C | -35276 | 2534 | -1603 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1D | -35284 | 2534 | -1603 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -35270 | 2538 | -1592 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1J | -35290 | 2538 | -1592 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1K | -35270 | 2538 | -1608 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1L | -35290 | 2538 | -1608 | -288 | -- | -- | -- | -3.25 | 0.19 | 1.00 | 0.23 | 3.44 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -144471 | 16086 | 266 | 484 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1B | -144549 | 16086 | 266 | 486 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1C | -144471 | 16086 | 235 | 484 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1D | -144549 | 16086 | 235 | 486 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -144417 | 16095 | 289 | 482 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1J | -144603 | 16095 | 289 | 488 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1K | -144417 | 16095 | 212 | 482 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1L | -144603 | 16095 | 212 | 488 | -- | -- | -- | -4.44 | 0.26 | 1.00 | 0.49 | 4.33 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -50916 | 585 | 386 | -95 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1B | -50934 | 585 | 386 | -94 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1C | -50916 | 585 | 371 | -95 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1D | -50934 | 585 | 371 | -94 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50905 | 588 | 397 | -96 | -- | -- | -- | -4.69 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1J | -50946 | 588 | 397 | -93 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1K | -50905 | 588 | 361 | -96 | -- | -- | -- | -4.69 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1L | -50946 | 588 | 361 | -93 | -- | -- | -- | -4.70 | 0.28 | 1.00 | 0.05 | 4.52 | 0.02 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 10 Descrizione: Maschio murario n. 10 su corso Valdocco
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -19940 | 5258 | 54 | 348 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1B | -19952 | 5258 | 54 | 350 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1C | -19940 | 5258 | 51 | 348 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1D | -19952 | 5258 | 51 | 350 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -19931 | 5265 | 55 | 347 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1J | -19960 | 5265 | 55 | 351 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1K | -19931 | 5265 | 50 | 347 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1L | -19960 | 5265 | 50 | 351 | -- | -- | -- | -2.05 | 0.07 | 1.00 | 0.54 | 2.53 | 0.43 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -239127 | 25515 | 826 | 2097 | -- | -- | -- | -3.74 | 0.12 | 1.00 | 0.40 | 3.79 | 0.21 | -- | -- | |
| ½ | 1B | -239394 | 25515 | 826 | 2114 | -- | -- | -- | -3.74 | 0.12 | 1.00 | 0.40 | 3.80 | 0.21 | -- | -- | |
| ½ | 1C | -239127 | 25515 | 795 | 2097 | -- | -- | -- | -3.74 | 0.12 | 1.00 | 0.40 | 3.79 | 0.21 | -- | -- | |
| ½ | 1D | -239394 | 25515 | 795 | 2114 | -- | -- | -- | -3.74 | 0.12 | 1.00 | 0.40 | 3.80 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -238941 | 25566 | 847 | 2084 | -- | -- | -- | -3.73 | 0.12 | 1.00 | 0.40 | 3.79 | 0.21 | -- | -- | |
| ½ | 1J | -239580 | 25566 | 847 | 2126 | -- | -- | -- | -3.74 | 0.12 | 1.00 | 0.40 | 3.80 | 0.21 | -- | -- | |
| ½ | 1K | -238941 | 25566 | 773 | 2084 | -- | -- | -- | -3.73 | 0.12 | 1.00 | 0.40 | 3.79 | 0.21 | -- | -- | |
| ½ | 1L | -239580 | 25566 | 773 | 2126 | -- | -- | -- | -3.74 | 0.12 | 1.00 | 0.40 | 3.80 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -59695 | 12366 | -45 | -1417 | -- | -- | -- | -6.48 | 0.22 | 1.00 | 1.34 | 5.85 | 0.46 | 0.06 | 0.00 | |
| 0 | 1B | -59845 | 12366 | -45 | -1423 | -- | -- | -- | -6.49 | 0.22 | 1.00 | 1.34 | 5.86 | 0.46 | 0.06 | 0.00 | |
| 0 | 1C | -59695 | 12366 | -58 | -1417 | -- | -- | -- | -6.48 | 0.22 | 1.00 | 1.34 | 5.85 | 0.46 | 0.06 | 0.00 | |
| 0 | 1D | -59845 | 12366 | -58 | -1423 | -- | -- | -- | -6.49 | 0.22 | 1.00 | 1.34 | 5.86 | 0.46 | 0.06 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -59590 | 12400 | -36 | -1413 | -- | -- | -- | -6.47 | 0.22 | 1.00 | 1.35 | 5.84 | 0.46 | 0.06 | 0.00 | |
| 0 | 1J | -59950 | 12400 | -36 | -1427 | -- | -- | -- | -6.50 | 0.22 | 1.00 | 1.35 | 5.87 | 0.46 | 0.06 | 0.00 | |
| 0 | 1K | -59590 | 12400 | -67 | -1413 | -- | -- | -- | -6.47 | 0.22 | 1.00 | 1.35 | 5.84 | 0.46 | 0.06 | 0.00 | |
| 0 | 1L | -59950 | 12400 | -67 | -1427 | -- | -- | -- | -6.50 | 0.22 | 1.00 | 1.35 | 5.87 | 0.46 | 0.06 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 11 Descrizione: Maschio murario n. 11 su corso Valdocco
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -19182 | 371 | 1457 | 0 | -- | -- | -- | -2.14 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1B | -19194 | 371 | 1457 | 0 | -- | -- | -- | -2.14 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1C | -19182 | 371 | 1455 | 0 | -- | -- | -- | -2.14 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1D | -19194 | 371 | 1455 | 0 | -- | -- | -- | -2.14 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -19173 | 373 | 1458 | 0 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1J | -19202 | 373 | 1458 | 0 | -- | -- | -- | -2.14 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1K | -19173 | 373 | 1454 | 0 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1L | -19202 | 373 | 1454 | 0 | -- | -- | -- | -2.14 | 0.07 | 1.00 | 0.04 | 2.59 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -253530 | 8814 | -2060 | 0 | -- | -- | -- | -4.70 | 0.16 | 1.00 | 0.16 | 4.52 | 0.07 | -- | -- | |
| ½ | 1B | -253847 | 8814 | -2060 | 0 | -- | -- | -- | -4.71 | 0.16 | 1.00 | 0.16 | 4.52 | 0.07 | -- | -- | |
| ½ | 1C | -253530 | 8814 | -2087 | 0 | -- | -- | -- | -4.70 | 0.16 | 1.00 | 0.16 | 4.52 | 0.07 | -- | -- | |
| ½ | 1D | -253847 | 8814 | -2087 | 0 | -- | -- | -- | -4.71 | 0.16 | 1.00 | 0.16 | 4.52 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -253309 | 8850 | -2041 | 0 | -- | -- | -- | -4.70 | 0.16 | 1.00 | 0.16 | 4.51 | 0.07 | -- | -- | |
| ½ | 1J | -254068 | 8850 | -2041 | 0 | -- | -- | -- | -4.71 | 0.16 | 1.00 | 0.16 | 4.53 | 0.07 | -- | -- | |
| ½ | 1K | -253309 | 8850 | -2106 | 0 | -- | -- | -- | -4.70 | 0.16 | 1.00 | 0.16 | 4.51 | 0.07 | -- | -- | |
| ½ | 1L | -254068 | 8850 | -2106 | 0 | -- | -- | -- | -4.71 | 0.16 | 1.00 | 0.16 | 4.53 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -49019 | 8 | -945 | 0 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.05 | |
| 0 | 1B | -49075 | 8 | -945 | 0 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.00 | 5.09 | 0.00 | 0.00 | 0.05 | |
| 0 | 1C | -49019 | 8 | -953 | 0 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.05 | |
| 0 | 1D | -49075 | 8 | -953 | 0 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.00 | 5.09 | 0.00 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48980 | 16 | -939 | 0 | -- | -- | -- | -5.45 | 0.18 | 1.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.05 | |
| 0 | 1J | -49115 | 16 | -939 | 0 | -- | -- | -- | -5.47 | 0.18 | 1.00 | 0.00 | 5.09 | 0.00 | 0.00 | 0.05 | |
| 0 | 1K | -48980 | 16 | -958 | 0 | -- | -- | -- | -5.45 | 0.18 | 1.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.05 | |
| 0 | 1L | -49115 | 16 | -958 | 0 | -- | -- | -- | -5.47 | 0.18 | 1.00 | 0.00 | 5.09 | 0.00 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 12 Descrizione: Maschio murario n. 12 su corso Valdocco
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14453 | 1718 | 648 | 0 | -- | -- | -- | -2.00 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1B | -14459 | 1718 | 648 | 0 | -- | -- | -- | -2.01 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1C | -14453 | 1718 | 647 | 0 | -- | -- | -- | -2.00 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1D | -14459 | 1718 | 647 | 0 | -- | -- | -- | -2.01 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -14450 | 1718 | 649 | 0 | -- | -- | -- | -2.00 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1J | -14463 | 1718 | 649 | 0 | -- | -- | -- | -2.01 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1K | -14450 | 1718 | 647 | 0 | -- | -- | -- | -2.00 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1L | -14463 | 1718 | 647 | 0 | -- | -- | -- | -2.01 | 0.07 | 1.00 | 0.24 | 2.49 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -214149 | 6945 | -3648 | 423 | -- | -- | -- | -4.27 | 0.14 | 1.00 | 0.14 | 4.20 | 0.07 | -- | -- | |
| ½ | 1B | -214299 | 6945 | -3648 | 423 | -- | -- | -- | -4.28 | 0.14 | 1.00 | 0.14 | 4.20 | 0.07 | -- | -- | |
| ½ | 1C | -214149 | 6945 | -3684 | 423 | -- | -- | -- | -4.27 | 0.14 | 1.00 | 0.14 | 4.20 | 0.07 | -- | -- | |
| ½ | 1D | -214299 | 6945 | -3684 | 423 | -- | -- | -- | -4.28 | 0.14 | 1.00 | 0.14 | 4.20 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -214043 | 6968 | -3623 | 423 | -- | -- | -- | -4.27 | 0.14 | 1.00 | 0.14 | 4.19 | 0.07 | -- | -- | |
| ½ | 1J | -214404 | 6968 | -3623 | 424 | -- | -- | -- | -4.28 | 0.14 | 1.00 | 0.14 | 4.20 | 0.07 | -- | -- | |
| ½ | 1K | -214043 | 6968 | -3709 | 423 | -- | -- | -- | -4.27 | 0.14 | 1.00 | 0.14 | 4.19 | 0.07 | -- | -- | |
| ½ | 1L | -214404 | 6968 | -3709 | 424 | -- | -- | -- | -4.28 | 0.14 | 1.00 | 0.14 | 4.20 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -46175 | 1983 | 721 | 0 | -- | -- | -- | -6.40 | 0.21 | 1.00 | 0.28 | 5.79 | 0.09 | 0.00 | 0.04 | |
| 0 | 1B | -46242 | 1983 | 721 | 0 | -- | -- | -- | -6.41 | 0.21 | 1.00 | 0.28 | 5.80 | 0.09 | 0.00 | 0.04 | |
| 0 | 1C | -46175 | 1983 | 712 | 0 | -- | -- | -- | -6.40 | 0.21 | 1.00 | 0.28 | 5.79 | 0.09 | 0.00 | 0.04 | |
| 0 | 1D | -46242 | 1983 | 712 | 0 | -- | -- | -- | -6.41 | 0.21 | 1.00 | 0.28 | 5.80 | 0.09 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46129 | 1989 | 728 | 0 | -- | -- | -- | -6.40 | 0.21 | 1.00 | 0.28 | 5.79 | 0.10 | 0.00 | 0.04 | |
| 0 | 1J | -46289 | 1989 | 728 | 0 | -- | -- | -- | -6.42 | 0.21 | 1.00 | 0.28 | 5.81 | 0.10 | 0.00 | 0.04 | |
| 0 | 1K | -46129 | 1989 | 706 | 0 | -- | -- | -- | -6.40 | 0.21 | 1.00 | 0.28 | 5.79 | 0.10 | 0.00 | 0.04 | |
| 0 | 1L | -46289 | 1989 | 706 | 0 | -- | -- | -- | -6.42 | 0.21 | 1.00 | 0.28 | 5.81 | 0.10 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 13 Descrizione: Maschio murario n. 13 su corso Valdocco
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -27417 | 118 | -1754 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1B | -27425 | 118 | -1754 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1C | -27417 | 118 | -1756 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1D | -27425 | 118 | -1756 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -27412 | 119 | -1752 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1J | -27430 | 119 | -1752 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1K | -27412 | 119 | -1757 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1L | -27430 | 119 | -1757 | 0 | -- | -- | -- | -2.02 | 0.07 | 1.00 | 0.01 | 2.50 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -557118 | 9931 | -10132 | 1 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.10 | 5.09 | 0.04 | -- | -- | |
| ½ | 1B | -557486 | 9931 | -10132 | 1 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.10 | 5.09 | 0.04 | -- | -- | |
| ½ | 1C | -557118 | 9931 | -10156 | 1 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.10 | 5.09 | 0.04 | -- | -- | |
| ½ | 1D | -557486 | 9931 | -10156 | 1 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.10 | 5.09 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -556861 | 9963 | -10115 | 1 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.10 | 5.08 | 0.04 | -- | -- | |
| ½ | 1J | -557744 | 9963 | -10115 | 1 | -- | -- | -- | -5.47 | 0.18 | 1.00 | 0.10 | 5.09 | 0.04 | -- | -- | |
| ½ | 1K | -556861 | 9963 | -10173 | 1 | -- | -- | -- | -5.46 | 0.18 | 1.00 | 0.10 | 5.08 | 0.04 | -- | -- | |
| ½ | 1L | -557744 | 9963 | -10173 | 1 | -- | -- | -- | -5.47 | 0.18 | 1.00 | 0.10 | 5.09 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -98080 | 6904 | 4463 | -3530 | -- | -- | -- | -7.21 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1B | -98139 | 6904 | 4463 | -3534 | -- | -- | -- | -7.22 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1C | -98080 | 6904 | 4460 | -3530 | -- | -- | -- | -7.21 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1D | -98139 | 6904 | 4460 | -3534 | -- | -- | -- | -7.22 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -98038 | 6920 | 4466 | -3526 | -- | -- | -- | -7.21 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1J | -98181 | 6920 | 4466 | -3537 | -- | -- | -- | -7.22 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1K | -98038 | 6920 | 4457 | -3526 | -- | -- | -- | -7.21 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1L | -98181 | 6920 | 4457 | -3537 | -- | -- | -- | -7.22 | 0.24 | 1.00 | 0.51 | 6.40 | 0.16 | 0.07 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 14 Descrizione: Maschio murario n. 14 su corso valdocco
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -31043 | 1419 | -1309 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1B | -31046 | 1419 | -1309 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1C | -31043 | 1419 | -1312 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1D | -31046 | 1419 | -1312 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -31040 | 1420 | -1306 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1J | -31049 | 1420 | -1306 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1K | -31040 | 1420 | -1314 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1L | -31049 | 1420 | -1314 | 310 | -- | -- | -- | -2.26 | 0.08 | 1.00 | 0.10 | 2.68 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -531792 | 27410 | -9971 | 10407 | -- | -- | -- | -5.53 | 0.18 | 1.00 | 0.28 | 5.13 | 0.11 | -- | -- | |
| ½ | 1B | -531938 | 27410 | -9971 | 10416 | -- | -- | -- | -5.53 | 0.18 | 1.00 | 0.28 | 5.14 | 0.11 | -- | -- | |
| ½ | 1C | -531792 | 27410 | -9993 | 10407 | -- | -- | -- | -5.53 | 0.18 | 1.00 | 0.28 | 5.13 | 0.11 | -- | -- | |
| ½ | 1D | -531938 | 27410 | -9993 | 10416 | -- | -- | -- | -5.53 | 0.18 | 1.00 | 0.28 | 5.14 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -531691 | 27429 | -9955 | 10400 | -- | -- | -- | -5.52 | 0.18 | 1.00 | 0.29 | 5.13 | 0.11 | -- | -- | |
| ½ | 1J | -532040 | 27429 | -9955 | 10422 | -- | -- | -- | -5.53 | 0.18 | 1.00 | 0.29 | 5.14 | 0.11 | -- | -- | |
| ½ | 1K | -531691 | 27429 | -10009 | 10400 | -- | -- | -- | -5.52 | 0.18 | 1.00 | 0.29 | 5.13 | 0.11 | -- | -- | |
| ½ | 1L | -532040 | 27429 | -10009 | 10422 | -- | -- | -- | -5.53 | 0.18 | 1.00 | 0.29 | 5.14 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -103022 | 4935 | 4012 | -3020 | -- | -- | -- | -7.49 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1B | -103061 | 4935 | 4012 | -3023 | -- | -- | -- | -7.50 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1C | -103022 | 4935 | 4009 | -3020 | -- | -- | -- | -7.49 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1D | -103061 | 4935 | 4009 | -3023 | -- | -- | -- | -7.50 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -102996 | 4938 | 4015 | -3017 | -- | -- | -- | -7.49 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1J | -103087 | 4938 | 4015 | -3026 | -- | -- | -- | -7.50 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1K | -102996 | 4938 | 4006 | -3017 | -- | -- | -- | -7.49 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1L | -103087 | 4938 | 4006 | -3026 | -- | -- | -- | -7.50 | 0.25 | 1.00 | 0.36 | 6.61 | 0.11 | 0.05 | 0.12 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 15 Descrizione: Maschio murario n. 15 su corso Valdocco
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| *l* | 1A | -17741 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.15 | 2.56 | 0.12 | -- | -- | |
| *l* | 1B | -17743 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.15 | 2.56 | 0.12 | -- | -- | |
| *l* | 1C | -17741 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.15 | 2.56 | 0.12 | -- | -- | |
| *l* | 1D | -17743 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.15 | 2.56 | 0.12 | -- | -- | |
| *l* | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1I | -17739 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.16 | 2.56 | 0.12 | -- | -- | |
| *l* | 1J | -17744 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.16 | 2.56 | 0.12 | -- | -- | |
| *l* | 1K | -17739 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.16 | 2.56 | 0.12 | -- | -- | |
| *l* | 1L | -17744 | 1312 | 952 | -303 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.16 | 2.56 | 0.12 | -- | -- | |
| *l* | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| *l* | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -275984 | 13624 | -3161 | -194 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.39 | 0.10 | -- | -- | |
| ½ | 1B | -276035 | 13624 | -3161 | -195 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.39 | 0.10 | -- | -- | |
| ½ | 1C | -275984 | 13624 | -3169 | -194 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.39 | 0.10 | -- | -- | |
| ½ | 1D | -276035 | 13624 | -3169 | -195 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.39 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -275948 | 13629 | -3154 | -193 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.39 | 0.10 | -- | -- | |
| ½ | 1J | -276070 | 13629 | -3154 | -196 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.40 | 0.10 | -- | -- | |
| ½ | 1K | -275948 | 13629 | -3176 | -193 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.39 | 0.10 | -- | -- | |
| ½ | 1L | -276070 | 13629 | -3176 | -196 | -- | -- | -- | -4.54 | 0.15 | 1.00 | 0.22 | 4.40 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -47821 | 19 | 450 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1B | -47828 | 19 | 450 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1C | -47821 | 19 | 447 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1D | -47828 | 19 | 447 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47815 | 19 | 451 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1J | -47834 | 19 | 451 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1K | -47815 | 19 | 446 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1L | -47834 | 19 | 446 | 0 | -- | -- | -- | -5.65 | 0.19 | 1.00 | 0.00 | 5.23 | 0.00 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 16 Descrizione: Maschio murario n. 16 su Via del Carmine
altezza calcolata: 954.00 cm

| P | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ | $I_{rMy}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o | c. | | | | | | | | | | | | | | $I_{rM}$ | $I_{rMfp}$ | |
| s | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -19695 | 1255 | 1215 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1B | -19698 | 1255 | 1215 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1C | -19695 | 1255 | 1215 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1D | -19698 | 1255 | 1215 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -19693 | 1255 | 1216 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1J | -19700 | 1255 | 1216 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1K | -19693 | 1255 | 1214 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1L | -19700 | 1255 | 1214 | -432 | -- | -- | -- | -2.10 | 0.07 | 1.00 | 0.13 | 2.56 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -286954 | 6269 | -6990 | -1680 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1B | -287012 | 6269 | -6990 | -1683 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1C | -286954 | 6269 | -7000 | -1680 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1D | -287012 | 6269 | -7000 | -1683 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -286914 | 6275 | -6982 | -1678 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1J | -287052 | 6275 | -6982 | -1685 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1K | -286914 | 6275 | -7008 | -1678 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1L | -287052 | 6275 | -7008 | -1685 | -- | -- | -- | -4.33 | 0.14 | 1.00 | 0.09 | 4.24 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -58738 | 1363 | 1812 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1B | -58749 | 1363 | 1812 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1C | -58738 | 1363 | 1809 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1D | -58749 | 1363 | 1809 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -58731 | 1364 | 1815 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1J | -58757 | 1364 | 1815 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1K | -58731 | 1364 | 1807 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1L | -58757 | 1364 | 1807 | 0 | -- | -- | -- | -6.26 | 0.21 | 1.00 | 0.15 | 5.68 | 0.05 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 17 Descrizione: Maschio murario n. 17 su via del Carmine
altezza calcolata: 954.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -30384 | 1297 | -1832 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1B | -30385 | 1297 | -1832 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1C | -30384 | 1297 | -1834 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1D | -30385 | 1297 | -1834 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -30383 | 1297 | -1831 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1J | -30386 | 1297 | -1831 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1K | -30383 | 1297 | -1835 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1L | -30386 | 1297 | -1835 | 364 | -- | -- | -- | -2.13 | 0.07 | 1.00 | 0.09 | 2.59 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -533208 | 24733 | -12904 | 6041 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1B | -533314 | 24733 | -12904 | 6045 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1C | -533208 | 24733 | -12915 | 6041 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1D | -533314 | 24733 | -12915 | 6045 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -533134 | 24748 | -12896 | 6039 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1J | -533388 | 24748 | -12896 | 6047 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1K | -533134 | 24748 | -12922 | 6039 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1L | -533388 | 24748 | -12922 | 6047 | -- | -- | -- | -5.34 | 0.18 | 1.00 | 0.25 | 4.99 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -103735 | 4272 | 5585 | -981 | -- | -- | -- | -7.28 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1B | -103765 | 4272 | 5585 | -981 | -- | -- | -- | -7.29 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1C | -103735 | 4272 | 5583 | -981 | -- | -- | -- | -7.28 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1D | -103765 | 4272 | 5583 | -981 | -- | -- | -- | -7.29 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -103714 | 4275 | 5587 | -980 | -- | -- | -- | -7.28 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1J | -103786 | 4275 | 5587 | -982 | -- | -- | -- | -7.29 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1K | -103714 | 4275 | 5582 | -980 | -- | -- | -- | -7.28 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1L | -103786 | 4275 | 5582 | -982 | -- | -- | -- | -7.29 | 0.24 | 1.00 | 0.30 | 6.45 | 0.09 | 0.02 | 0.17 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 18 Descrizione: Maschio murario n. 18 su via del Carmine
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -30115 | 267 | -2626 | 0 | -- | -- | -- | -2.08 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1B | -30117 | 267 | -2626 | 0 | -- | -- | -- | -2.09 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1C | -30115 | 267 | -2628 | 0 | -- | -- | -- | -2.08 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1D | -30117 | 267 | -2628 | 0 | -- | -- | -- | -2.09 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -30114 | 268 | -2624 | 0 | -- | -- | -- | -2.08 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1J | -30118 | 268 | -2624 | 0 | -- | -- | -- | -2.09 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1K | -30114 | 268 | -2630 | 0 | -- | -- | -- | -2.08 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1L | -30118 | 268 | -2630 | 0 | -- | -- | -- | -2.09 | 0.07 | 1.00 | 0.02 | 2.55 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -579514 | 9540 | -11858 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1B | -579639 | 9540 | -11858 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1C | -579514 | 9540 | -11869 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1D | -579639 | 9540 | -11869 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -579427 | 9554 | -11850 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1J | -579726 | 9554 | -11850 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1K | -579427 | 9554 | -11877 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1L | -579726 | 9554 | -11877 | 0 | -- | -- | -- | -5.35 | 0.18 | 1.00 | 0.09 | 5.00 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -102703 | 5660 | 7549 | -3235 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.32 | 0.12 | 0.05 | 0.23 | |
| 0 | 1B | -102730 | 5660 | 7549 | -3239 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.32 | 0.12 | 0.05 | 0.23 | |
| 0 | 1C | -102703 | 5660 | 7549 | -3235 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.32 | 0.12 | 0.05 | 0.23 | |
| 0 | 1D | -102730 | 5660 | 7549 | -3239 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.32 | 0.12 | 0.05 | 0.23 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -102684 | 5664 | 7550 | -3233 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.32 | 0.12 | 0.05 | 0.23 | |
| 0 | 1J | -102749 | 5664 | 7550 | -3241 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.33 | 0.12 | 0.05 | 0.23 | |
| 0 | 1K | -102684 | 5664 | 7549 | -3233 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.32 | 0.12 | 0.05 | 0.23 | |
| 0 | 1L | -102749 | 5664 | 7549 | -3241 | -- | -- | -- | -7.11 | 0.24 | 1.00 | 0.39 | 6.33 | 0.12 | 0.05 | 0.23 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **6** Tabella: **Muri portico**
Descrizione: **Pilastroni portico**
Tipo di verifica: **Stato limite** fk: **60.00** kg/cmq fvk0: **0.99** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 19 Descrizione: Maschio murario n. 19 su Via Del Carmine
altezza calcolata: 954.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -31662 | 3395 | -704 | 0 | -- | -- | -- | -2.49 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1B | -31666 | 3395 | -704 | 0 | -- | -- | -- | -2.50 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1C | -31662 | 3395 | -705 | 0 | -- | -- | -- | -2.49 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1D | -31666 | 3395 | -705 | 0 | -- | -- | -- | -2.50 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1I | -31660 | 3396 | -703 | 0 | -- | -- | -- | -2.49 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1J | -31668 | 3396 | -703 | 0 | -- | -- | -- | -2.50 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1K | -31660 | 3396 | -706 | 0 | -- | -- | -- | -2.49 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1L | -31668 | 3396 | -706 | 0 | -- | -- | -- | -2.50 | 0.08 | 1.00 | 0.27 | 2.86 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1A | -467827 | 16112 | -9623 | 0 | -- | -- | -- | -4.92 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1B | -467897 | 16112 | -9623 | 0 | -- | -- | -- | -4.92 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1C | -467827 | 16112 | -9634 | 0 | -- | -- | -- | -4.92 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1D | -467897 | 16112 | -9634 | 0 | -- | -- | -- | -4.92 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1I | -467778 | 16129 | -9615 | 0 | -- | -- | -- | -4.91 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1J | -467947 | 16129 | -9615 | 0 | -- | -- | -- | -4.92 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1K | -467778 | 16129 | -9642 | 0 | -- | -- | -- | -4.91 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1L | -467947 | 16129 | -9642 | 0 | -- | -- | -- | -4.92 | 0.16 | 1.00 | 0.17 | 4.68 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | -- | -- | |
| 0 | 1A | -60146 | 2741 | 5535 | -4929 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.54 | 0.10 | 0.15 | 0.24 | |
| 0 | 1B | -60161 | 2741 | 5535 | -4932 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.55 | 0.10 | 0.15 | 0.24 | |
| 0 | 1C | -60146 | 2741 | 5532 | -4929 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.54 | 0.10 | 0.15 | 0.24 | |
| 0 | 1D | -60161 | 2741 | 5532 | -4932 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.55 | 0.10 | 0.15 | 0.24 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -60136 | 2744 | 5536 | -4926 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.54 | 0.10 | 0.15 | 0.24 | |
| 0 | 1J | -60172 | 2744 | 5536 | -4935 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.55 | 0.10 | 0.15 | 0.24 | |
| 0 | 1K | -60136 | 2744 | 5530 | -4926 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.54 | 0.10 | 0.15 | 0.24 | |
| 0 | 1L | -60172 | 2744 | 5530 | -4935 | -- | -- | -- | -4.74 | 0.16 | 1.00 | 0.22 | 4.55 | 0.10 | 0.15 | 0.24 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -12187 | 34 | 26 | 0 | -- | -- | -- | -1.60 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1B | -12198 | 34 | 26 | 0 | -- | -- | -- | -1.61 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1C | -12187 | 34 | 26 | 0 | -- | -- | -- | -1.60 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1D | -12198 | 34 | 26 | 0 | -- | -- | -- | -1.61 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -12180 | 36 | 27 | 0 | -- | -- | -- | -1.60 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1J | -12205 | 36 | 27 | 0 | -- | -- | -- | -1.61 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1K | -12180 | 36 | 25 | 0 | -- | -- | -- | -1.60 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1L | -12205 | 36 | 25 | 0 | -- | -- | -- | -1.61 | 0.09 | 1.00 | 0.00 | 2.20 | 0.00 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -42332 | 1796 | -698 | -271 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1B | -42359 | 1796 | -698 | -272 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1C | -42332 | 1796 | -701 | -271 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1D | -42359 | 1796 | -701 | -272 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -42313 | 1799 | -697 | -271 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1J | -42379 | 1799 | -697 | -273 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1K | -42313 | 1799 | -702 | -271 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1L | -42379 | 1799 | -702 | -273 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -20212 | 715 | 394 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1B | -20215 | 715 | 394 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1C | -20212 | 715 | 389 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1D | -20215 | 715 | 389 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20210 | 717 | 398 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1J | -20216 | 717 | 398 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1K | -20210 | 717 | 385 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1L | -20216 | 717 | 385 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ cm | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -76135 | 6195 | -8180 | -562 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.97 | 0.14 | -- | -- | |
| l | 1B | -76164 | 6195 | -8180 | -563 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.98 | 0.14 | -- | -- | |
| l | 1C | -76135 | 6195 | -8186 | -562 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.97 | 0.14 | -- | -- | |
| l | 1D | -76164 | 6195 | -8186 | -563 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.98 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -76114 | 6212 | -8176 | -561 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.97 | 0.14 | -- | -- | |
| l | 1J | -76185 | 6212 | -8176 | -563 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.98 | 0.14 | -- | -- | |
| l | 1K | -76114 | 6212 | -8190 | -561 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.97 | 0.14 | -- | -- | |
| l | 1L | -76185 | 6212 | -8190 | -563 | -- | -- | -- | -2.63 | 0.15 | 1.00 | 0.21 | 2.98 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -195761 | 2990 | -952 | -8801 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1B | -195876 | 2990 | -952 | -8810 | -- | -- | -- | -3.39 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1C | -195761 | 2990 | -955 | -8801 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1D | -195876 | 2990 | -955 | -8810 | -- | -- | -- | -3.39 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -195681 | 3003 | -950 | -8795 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1J | -195957 | 3003 | -950 | -8816 | -- | -- | -- | -3.39 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1K | -195681 | 3003 | -958 | -8795 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1L | -195957 | 3003 | -958 | -8816 | -- | -- | -- | -3.39 | 0.20 | 1.00 | 0.05 | 3.54 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -107352 | 1625 | 10071 | -2552 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1B | -107373 | 1625 | 10071 | -2555 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1C | -107352 | 1625 | 10066 | -2552 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1D | -107373 | 1625 | 10066 | -2555 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -107337 | 1632 | 10075 | -2550 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1J | -107388 | 1632 | 10075 | -2558 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1K | -107337 | 1632 | 10062 | -2550 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1L | -107388 | 1632 | 10062 | -2558 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.06 | 3.78 | 0.03 | 0.02 | 0.24 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -42966 | 1434 | -7265 | -67 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1B | -42980 | 1434 | -7265 | -67 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1C | -42966 | 1434 | -7271 | -67 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1D | -42980 | 1434 | -7271 | -67 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -42956 | 1451 | -7261 | -68 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1J | -42990 | 1451 | -7261 | -67 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1K | -42956 | 1451 | -7275 | -68 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1L | -42990 | 1451 | -7275 | -67 | -- -- | -- | -3.10 | 0.18 | 1.00 | 0.10 | 3.33 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -121342 | 997 | -2612 | 92 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.29 | 0.02 | -- | -- | |
| ½ | 1B | -121419 | 997 | -2612 | 90 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.29 | 0.02 | -- | -- | |
| ½ | 1C | -121342 | 997 | -2615 | 92 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.29 | 0.02 | -- | -- | |
| ½ | 1D | -121419 | 997 | -2615 | 90 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.29 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -121289 | 1004 | -2611 | 93 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.28 | 0.02 | -- | -- | |
| ½ | 1J | -121472 | 1004 | -2611 | 89 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.29 | 0.02 | -- | -- | |
| ½ | 1K | -121289 | 1004 | -2616 | 93 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.28 | 0.02 | -- | -- | |
| ½ | 1L | -121472 | 1004 | -2616 | 89 | -- -- | -- | -4.38 | 0.26 | 1.00 | 0.04 | 4.29 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -65218 | 1517 | 7224 | -373 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1B | -65226 | 1517 | 7224 | -374 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1C | -65218 | 1517 | 7221 | -373 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1D | -65226 | 1517 | 7221 | -374 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -65213 | 1521 | 7226 | -372 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1J | -65232 | 1521 | 7226 | -375 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1K | -65213 | 1521 | 7219 | -372 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1L | -65232 | 1521 | 7219 | -375 | -- -- | -- | -4.71 | 0.28 | 1.00 | 0.11 | 4.53 | 0.05 | 0.01 | 0.33 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -88687 | 5915 | -9630 | 128 | -- | -- | -- | -2.95 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1B | -88732 | 5915 | -9630 | 128 | -- | -- | -- | -2.95 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1C | -88687 | 5915 | -9649 | 128 | -- | -- | -- | -2.95 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1D | -88732 | 5915 | -9649 | 128 | -- | -- | -- | -2.95 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -88655 | 5938 | -9618 | 127 | -- | -- | -- | -2.94 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1J | -88763 | 5938 | -9618 | 129 | -- | -- | -- | -2.95 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1K | -88655 | 5938 | -9661 | 127 | -- | -- | -- | -2.94 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1L | -88763 | 5938 | -9661 | 129 | -- | -- | -- | -2.95 | 0.17 | 1.00 | 0.20 | 3.21 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -229970 | 2710 | -2330 | 1814 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.86 | 0.02 | -- | -- | |
| ½ | 1B | -230135 | 2710 | -2330 | 1809 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.87 | 0.02 | -- | -- | |
| ½ | 1C | -229970 | 2710 | -2345 | 1814 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.86 | 0.02 | -- | -- | |
| ½ | 1D | -230135 | 2710 | -2345 | 1809 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.87 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -229855 | 2730 | -2319 | 1817 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.86 | 0.02 | -- | -- | |
| ½ | 1J | -230251 | 2730 | -2319 | 1805 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.87 | 0.02 | -- | -- | |
| ½ | 1K | -229855 | 2730 | -2355 | 1817 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.86 | 0.02 | -- | -- | |
| ½ | 1L | -230251 | 2730 | -2355 | 1805 | -- | -- | -- | -3.82 | 0.22 | 1.00 | 0.05 | 3.87 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -124849 | 2576 | 10273 | -1042 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1B | -124881 | 2576 | 10273 | -1046 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1C | -124849 | 2576 | 10252 | -1042 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1D | -124881 | 2576 | 10252 | -1046 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -124826 | 2586 | 10288 | -1039 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1J | -124903 | 2586 | 10288 | -1049 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1K | -124826 | 2586 | 10237 | -1039 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1L | -124903 | 2586 | 10237 | -1049 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.09 | 4.11 | 0.04 | 0.01 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -49593 | 6587 | -7395 | 460 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.39 | 3.23 | 0.24 | -- | -- | |
| l | 1B | -49620 | 6587 | -7395 | 460 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.39 | 3.23 | 0.24 | -- | -- | |
| l | 1C | -49593 | 6587 | -7423 | 460 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.39 | 3.23 | 0.24 | -- | -- | |
| l | 1D | -49620 | 6587 | -7423 | 460 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.39 | 3.23 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -49574 | 6607 | -7376 | 459 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.40 | 3.23 | 0.25 | -- | -- | |
| l | 1J | -49639 | 6607 | -7376 | 460 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.40 | 3.23 | 0.25 | -- | -- | |
| l | 1K | -49574 | 6607 | -7443 | 459 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.40 | 3.23 | 0.25 | -- | -- | |
| l | 1L | -49639 | 6607 | -7443 | 460 | -- | -- | -- | -2.97 | 0.17 | 1.00 | 0.40 | 3.23 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -138696 | 1683 | -2666 | 2191 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.05 | 4.12 | 0.02 | -- | -- | |
| ½ | 1B | -138810 | 1683 | -2666 | 2191 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.05 | 4.12 | 0.02 | -- | -- | |
| ½ | 1C | -138696 | 1683 | -2676 | 2191 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.05 | 4.12 | 0.02 | -- | -- | |
| ½ | 1D | -138810 | 1683 | -2676 | 2191 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.05 | 4.12 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -138617 | 1693 | -2658 | 2190 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.05 | 4.11 | 0.02 | -- | -- | |
| ½ | 1J | -138890 | 1693 | -2658 | 2192 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.05 | 4.12 | 0.02 | -- | -- | |
| ½ | 1K | -138617 | 1693 | -2684 | 2190 | -- | -- | -- | -4.15 | 0.24 | 1.00 | 0.05 | 4.11 | 0.02 | -- | -- | |
| ½ | 1L | -138890 | 1693 | -2684 | 2192 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.05 | 4.12 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -74818 | 1687 | 6986 | 400 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1B | -74838 | 1687 | 6986 | 402 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1C | -74818 | 1687 | 6970 | 400 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1D | -74838 | 1687 | 6970 | 402 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -74804 | 1692 | 6997 | 399 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1J | -74853 | 1692 | 6997 | 403 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1K | -74804 | 1692 | 6959 | 399 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1L | -74853 | 1692 | 6959 | 403 | -- | -- | -- | -4.48 | 0.26 | 1.00 | 0.10 | 4.36 | 0.05 | 0.01 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -82480 | 7854 | -9111 | 317 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1B | -82544 | 7854 | -9111 | 317 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1C | -82480 | 7854 | -9183 | 317 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1D | -82544 | 7854 | -9183 | 317 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -82435 | 7873 | -9060 | 318 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1J | -82588 | 7873 | -9060 | 317 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1K | -82435 | 7873 | -9233 | 318 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1L | -82588 | 7873 | -9233 | 317 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.26 | 3.03 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -214346 | 3729 | -2024 | 6067 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1B | -214540 | 3729 | -2024 | 6082 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1C | -214346 | 3729 | -2132 | 6067 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1D | -214540 | 3729 | -2132 | 6082 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -214211 | 3750 | -1948 | 6056 | -- | -- | -- | -3.51 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1J | -214675 | 3750 | -1948 | 6093 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1K | -214211 | 3750 | -2208 | 6056 | -- | -- | -- | -3.51 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1L | -214675 | 3750 | -2208 | 6093 | -- | -- | -- | -3.52 | 0.21 | 1.00 | 0.06 | 3.64 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -117141 | 2308 | 10357 | 507 | -- | -- | -- | -3.84 | 0.23 | 1.00 | 0.08 | 3.88 | 0.04 | 0.00 | 0.23 | |
| 0 | 1B | -117188 | 2308 | 10357 | 522 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.08 | 3.88 | 0.04 | 0.00 | 0.23 | |
| 0 | 1C | -117141 | 2308 | 10183 | 507 | -- | -- | -- | -3.84 | 0.23 | 1.00 | 0.08 | 3.88 | 0.04 | 0.00 | 0.22 | |
| 0 | 1D | -117188 | 2308 | 10183 | 522 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.08 | 3.88 | 0.04 | 0.00 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -117108 | 2318 | 10477 | 496 | -- | -- | -- | -3.84 | 0.23 | 1.00 | 0.08 | 3.88 | 0.04 | 0.00 | 0.23 | |
| 0 | 1J | -117220 | 2318 | 10477 | 532 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.08 | 3.89 | 0.04 | 0.00 | 0.23 | |
| 0 | 1K | -117108 | 2318 | 10062 | 496 | -- | -- | -- | -3.84 | 0.23 | 1.00 | 0.08 | 3.88 | 0.04 | 0.00 | 0.22 | |
| 0 | 1L | -117220 | 2318 | 10062 | 532 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.08 | 3.89 | 0.04 | 0.00 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -41285 | 4960 | -5223 | -379 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1B | -41314 | 4960 | -5223 | -379 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1C | -41285 | 4960 | -5298 | -379 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1D | -41314 | 4960 | -5298 | -379 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -41264 | 4987 | -5171 | -378 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1J | -41335 | 4987 | -5171 | -380 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1K | -41264 | 4987 | -5350 | -378 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1L | -41335 | 4987 | -5350 | -380 | -- | -- | -- | -2.48 | 0.15 | 1.00 | 0.30 | 2.86 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -119615 | 3429 | -2178 | 2583 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.10 | 3.69 | 0.06 | -- | -- | |
| ½ | 1B | -119751 | 3429 | -2178 | 2593 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.10 | 3.70 | 0.06 | -- | -- | |
| ½ | 1C | -119615 | 3429 | -2335 | 2583 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.10 | 3.69 | 0.06 | -- | -- | |
| ½ | 1D | -119751 | 3429 | -2335 | 2593 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.10 | 3.70 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -119520 | 3441 | -2068 | 2576 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.10 | 3.69 | 0.06 | -- | -- | |
| ½ | 1J | -119847 | 3441 | -2068 | 2599 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.10 | 3.70 | 0.06 | -- | -- | |
| ½ | 1K | -119520 | 3441 | -2445 | 2576 | -- | -- | -- | -3.59 | 0.21 | 1.00 | 0.10 | 3.69 | 0.06 | -- | -- | |
| ½ | 1L | -119847 | 3441 | -2445 | 2599 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.10 | 3.70 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -65266 | 1715 | 4468 | -608 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.20 | |
| 0 | 1B | -65292 | 1715 | 4468 | -602 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.20 | |
| 0 | 1C | -65266 | 1715 | 4261 | -608 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.19 | |
| 0 | 1D | -65292 | 1715 | 4261 | -602 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.19 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -65248 | 1721 | 4612 | -612 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.20 | |
| 0 | 1J | -65310 | 1721 | 4612 | -598 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.20 | |
| 0 | 1K | -65248 | 1721 | 4117 | -612 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.18 | |
| 0 | 1L | -65310 | 1721 | 4117 | -598 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.10 | 3.94 | 0.05 | 0.01 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -54693 | 9833 | -482 | -1473 | -- -- | -- | -1.81 | 0.11 | 1.00 | 0.32 | 2.35 | 0.28 | -- | -- | |
| l | 1B | -54739 | 9833 | -482 | -1480 | -- -- | -- | -1.81 | 0.11 | 1.00 | 0.32 | 2.36 | 0.28 | -- | -- | |
| l | 1C | -54693 | 9833 | -503 | -1473 | -- -- | -- | -1.81 | 0.11 | 1.00 | 0.32 | 2.35 | 0.28 | -- | -- | |
| l | 1D | -54739 | 9833 | -503 | -1480 | -- -- | -- | -1.81 | 0.11 | 1.00 | 0.32 | 2.36 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -54661 | 9876 | -467 | -1468 | -- -- | -- | -1.80 | 0.11 | 1.00 | 0.33 | 2.35 | 0.28 | -- | -- | |
| l | 1J | -54771 | 9876 | -467 | -1485 | -- -- | -- | -1.81 | 0.11 | 1.00 | 0.33 | 2.36 | 0.28 | -- | -- | |
| l | 1K | -54661 | 9876 | -518 | -1468 | -- -- | -- | -1.80 | 0.11 | 1.00 | 0.33 | 2.35 | 0.28 | -- | -- | |
| l | 1L | -54771 | 9876 | -518 | -1485 | -- -- | -- | -1.81 | 0.11 | 1.00 | 0.33 | 2.36 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -162840 | 10047 | -1160 | -6019 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.02 | 0.11 | -- | -- | |
| ½ | 1B | -163057 | 10047 | -1160 | -6033 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.02 | 0.11 | -- | -- | |
| ½ | 1C | -162840 | 10047 | -1304 | -6019 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.02 | 0.11 | -- | -- | |
| ½ | 1D | -163057 | 10047 | -1304 | -6033 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.02 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -162688 | 10075 | -1060 | -6009 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.01 | 0.11 | -- | -- | |
| ½ | 1J | -163210 | 10075 | -1060 | -6042 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.02 | 0.11 | -- | -- | |
| ½ | 1K | -162688 | 10075 | -1405 | -6009 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.01 | 0.11 | -- | -- | |
| ½ | 1L | -163210 | 10075 | -1405 | -6042 | -- -- | -- | -2.69 | 0.16 | 1.00 | 0.17 | 3.02 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -91351 | 2445 | -136 | -97 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.00 | |
| 0 | 1B | -91389 | 2445 | -136 | -97 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.00 | |
| 0 | 1C | -91351 | 2445 | -277 | -97 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.01 | |
| 0 | 1D | -91389 | 2445 | -277 | -97 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -91325 | 2459 | -38 | -96 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.00 | |
| 0 | 1J | -91415 | 2459 | -38 | -98 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.00 | |
| 0 | 1K | -91325 | 2459 | -376 | -96 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.01 | |
| 0 | 1L | -91415 | 2459 | -376 | -98 | -- -- | -- | -3.02 | 0.18 | 1.00 | 0.08 | 3.26 | 0.05 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -16050 | 5010 | -202 | 0 | -- -- | -- | -1.64 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1B | -16061 | 5010 | -202 | 0 | -- -- | -- | -1.64 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1C | -16050 | 5010 | -205 | 0 | -- -- | -- | -1.64 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1D | -16061 | 5010 | -205 | 0 | -- -- | -- | -1.64 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -16042 | 5025 | -200 | 0 | -- -- | -- | -1.64 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1J | -16069 | 5025 | -200 | 0 | -- -- | -- | -1.65 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1K | -16042 | 5025 | -207 | 0 | -- -- | -- | -1.64 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1L | -16069 | 5025 | -207 | 0 | -- -- | -- | -1.65 | 0.10 | 1.00 | 0.51 | 2.23 | 0.46 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -51788 | 4283 | -805 | 0 | -- -- | -- | -2.65 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1B | -51848 | 4283 | -805 | 0 | -- -- | -- | -2.65 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1C | -51788 | 4283 | -827 | 0 | -- -- | -- | -2.65 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1D | -51848 | 4283 | -827 | 0 | -- -- | -- | -2.65 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -51746 | 4297 | -789 | 0 | -- -- | -- | -2.65 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1J | -51890 | 4297 | -789 | 0 | -- -- | -- | -2.66 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1K | -51746 | 4297 | -843 | 0 | -- -- | -- | -2.65 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1L | -51890 | 4297 | -843 | 0 | -- -- | -- | -2.66 | 0.16 | 1.00 | 0.22 | 2.99 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -33593 | 1771 | 110 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.01 | |
| 0 | 1B | -33598 | 1771 | 110 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.01 | |
| 0 | 1C | -33593 | 1771 | 71 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.01 | |
| 0 | 1D | -33598 | 1771 | 71 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -33589 | 1776 | 136 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.01 | |
| 0 | 1J | -33601 | 1776 | 136 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.01 | |
| 0 | 1K | -33589 | 1776 | 45 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.00 | |
| 0 | 1L | -33601 | 1776 | 45 | 0 | -- -- | -- | -3.44 | 0.20 | 1.00 | 0.18 | 3.58 | 0.10 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -26914 | 1467 | 508 | -449 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1B | -26920 | 1467 | 508 | -448 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1C | -26914 | 1467 | 505 | -449 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1D | -26920 | 1467 | 505 | -448 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -26910 | 1469 | 510 | -449 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1J | -26924 | 1469 | 510 | -448 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1K | -26910 | 1469 | 502 | -449 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1L | -26924 | 1469 | 502 | -448 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.11 | 2.18 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -55270 | 1869 | -482 | -425 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1B | -55276 | 1869 | -482 | -426 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1C | -55270 | 1869 | -486 | -425 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1D | -55276 | 1869 | -486 | -426 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -55267 | 1873 | -480 | -425 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1J | -55279 | 1873 | -480 | -426 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1K | -55267 | 1873 | -489 | -425 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1L | -55279 | 1873 | -489 | -426 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.08 | 2.48 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -42132 | 1985 | -431 | -108 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.00 | 0.03 | |
| 0 | 1B | -42133 | 1985 | -431 | -109 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.00 | 0.03 | |
| 0 | 1C | -42132 | 1985 | -434 | -108 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.00 | 0.03 | |
| 0 | 1D | -42133 | 1985 | -434 | -109 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -42130 | 1992 | -429 | -108 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.00 | 0.03 | |
| 0 | 1J | -42135 | 1992 | -429 | -110 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.75 | 0.10 | 0.00 | 0.03 | |
| 0 | 1K | -42130 | 1992 | -437 | -108 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.74 | 0.10 | 0.00 | 0.03 | |
| 0 | 1L | -42135 | 1992 | -437 | -110 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.13 | 2.75 | 0.10 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -7374 | 233 | 43 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1B | -7379 | 233 | 43 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1C | -7374 | 233 | 43 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1D | -7379 | 233 | 43 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -7370 | 235 | 44 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1J | -7383 | 235 | 44 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1K | -7370 | 235 | 42 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1L | -7383 | 235 | 42 | 0 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -32212 | 2245 | -395 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.65 | 0.14 | -- | -- | |
| ½ | 1B | -32227 | 2245 | -395 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.66 | 0.14 | -- | -- | |
| ½ | 1C | -32212 | 2245 | -396 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.65 | 0.14 | -- | -- | |
| ½ | 1D | -32227 | 2245 | -396 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.66 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -32201 | 2250 | -394 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.65 | 0.14 | -- | -- | |
| ½ | 1J | -32237 | 2250 | -394 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.66 | 0.14 | -- | -- | |
| ½ | 1K | -32201 | 2250 | -396 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.65 | 0.14 | -- | -- | |
| ½ | 1L | -32237 | 2250 | -396 | 0 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.19 | 2.66 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -19896 | 2850 | 170 | 0 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.47 | 3.12 | 0.30 | 0.00 | 0.03 | |
| 0 | 1B | -19906 | 2850 | 170 | 0 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.47 | 3.13 | 0.30 | 0.00 | 0.03 | |
| 0 | 1C | -19896 | 2850 | 168 | 0 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.47 | 3.12 | 0.30 | 0.00 | 0.03 | |
| 0 | 1D | -19906 | 2850 | 168 | 0 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.47 | 3.13 | 0.30 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -19889 | 2851 | 171 | 0 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.47 | 3.12 | 0.30 | 0.00 | 0.03 | |
| 0 | 1J | -19912 | 2851 | 171 | 0 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.47 | 3.13 | 0.30 | 0.00 | 0.03 | |
| 0 | 1K | -19889 | 2851 | 166 | 0 | -- | -- | -- | -3.28 | 0.29 | 1.00 | 0.47 | 3.12 | 0.30 | 0.00 | 0.03 | |
| 0 | 1L | -19912 | 2851 | 166 | 0 | -- | -- | -- | -3.29 | 0.29 | 1.00 | 0.47 | 3.13 | 0.30 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -20315 | 1141 | -307 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1B | -20334 | 1141 | -307 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1C | -20315 | 1141 | -309 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1D | -20334 | 1141 | -309 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -20302 | 1148 | -305 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1J | -20347 | 1148 | -305 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1K | -20302 | 1148 | -311 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1L | -20347 | 1148 | -311 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.08 | 1.74 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -90895 | 550 | 4160 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1B | -90935 | 550 | 4160 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1C | -90895 | 550 | 4154 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1D | -90935 | 550 | 4154 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -90866 | 559 | 4164 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1J | -90964 | 559 | 4164 | 0 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1K | -90866 | 559 | 4150 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1L | -90964 | 559 | 4150 | 0 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.02 | 3.07 | 0.01 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -50278 | 5698 | 5935 | 930 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1B | -50299 | 5698 | 5935 | 930 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1C | -50278 | 5698 | 5930 | 930 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1D | -50299 | 5698 | 5930 | 930 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50264 | 5706 | 5939 | 931 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1J | -50313 | 5706 | 5939 | 929 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1K | -50264 | 5706 | 5927 | 931 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1L | -50313 | 5706 | 5927 | 929 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.40 | 3.33 | 0.24 | 0.04 | 0.39 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -21622 | 3045 | -126 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1B | -21645 | 3045 | -126 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1C | -21622 | 3045 | -136 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1D | -21645 | 3045 | -136 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -21606 | 3049 | -119 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1J | -21661 | 3049 | -119 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1K | -21606 | 3049 | -143 | 0 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1L | -21661 | 3049 | -143 | 0 | -- | -- | -- | -1.44 | 0.13 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -97473 | 3947 | 4978 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.08 | -- | -- | |
| ½ | 1B | -97515 | 3947 | 4978 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.08 | -- | -- | |
| ½ | 1C | -97473 | 3947 | 4965 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.08 | -- | -- | |
| ½ | 1D | -97515 | 3947 | 4965 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -97444 | 3955 | 4987 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.09 | -- | -- | |
| ½ | 1J | -97544 | 3955 | 4987 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.09 | -- | -- | |
| ½ | 1K | -97444 | 3955 | 4956 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.09 | -- | -- | |
| ½ | 1L | -97544 | 3955 | 4956 | 0 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.13 | 3.09 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -53804 | 5258 | 5374 | 1713 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1B | -53828 | 5258 | 5374 | 1713 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1C | -53804 | 5258 | 5366 | 1713 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1D | -53828 | 5258 | 5366 | 1713 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -53787 | 5268 | 5380 | 1713 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1J | -53844 | 5268 | 5380 | 1713 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1K | -53787 | 5268 | 5360 | 1713 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1L | -53844 | 5268 | 5360 | 1713 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.35 | 3.34 | 0.21 | 0.06 | 0.33 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -61917 | 5193 | 2147 | -1767 | -- | -- | -- | -2.36 | 0.20 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1B | -61957 | 5193 | 2147 | -1775 | -- | -- | -- | -2.36 | 0.20 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1C | -61917 | 5193 | 2103 | -1767 | -- | -- | -- | -2.36 | 0.20 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1D | -61957 | 5193 | 2103 | -1775 | -- | -- | -- | -2.36 | 0.20 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -61889 | 5216 | 2177 | -1761 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1J | -61985 | 5216 | 2177 | -1780 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1K | -61889 | 5216 | 2072 | -1761 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1L | -61985 | 5216 | 2072 | -1780 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.20 | 2.43 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -181309 | 10268 | -1865 | -4429 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.20 | 3.25 | 0.12 | -- | -- | |
| ½ | 1B | -181516 | 10268 | -1865 | -4464 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.20 | 3.25 | 0.12 | -- | -- | |
| ½ | 1C | -181309 | 10268 | -2042 | -4429 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.20 | 3.25 | 0.12 | -- | -- | |
| ½ | 1D | -181516 | 10268 | -2042 | -4464 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.20 | 3.25 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -181165 | 10304 | -1741 | -4405 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.20 | 3.24 | 0.12 | -- | -- | |
| ½ | 1J | -181660 | 10304 | -1741 | -4488 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.20 | 3.25 | 0.12 | -- | -- | |
| ½ | 1K | -181165 | 10304 | -2165 | -4405 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.20 | 3.24 | 0.12 | -- | -- | |
| ½ | 1L | -181660 | 10304 | -2165 | -4488 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.20 | 3.25 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -105125 | 9296 | 1590 | 5620 | -- | -- | -- | -4.00 | 0.35 | 1.00 | 0.35 | 3.66 | 0.19 | 0.07 | 0.05 | |
| 0 | 1B | -105306 | 9296 | 1590 | 5600 | -- | -- | -- | -4.01 | 0.35 | 1.00 | 0.35 | 3.67 | 0.19 | 0.07 | 0.05 | |
| 0 | 1C | -105125 | 9296 | 1279 | 5620 | -- | -- | -- | -4.00 | 0.35 | 1.00 | 0.35 | 3.66 | 0.19 | 0.07 | 0.04 | |
| 0 | 1D | -105306 | 9296 | 1279 | 5600 | -- | -- | -- | -4.01 | 0.35 | 1.00 | 0.35 | 3.67 | 0.19 | 0.07 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -104998 | 9308 | 1807 | 5634 | -- | -- | -- | -4.00 | 0.35 | 1.00 | 0.35 | 3.66 | 0.19 | 0.07 | 0.06 | |
| 0 | 1J | -105433 | 9308 | 1807 | 5586 | -- | -- | -- | -4.01 | 0.35 | 1.00 | 0.35 | 3.67 | 0.19 | 0.06 | 0.06 | |
| 0 | 1K | -104998 | 9308 | 1061 | 5634 | -- | -- | -- | -4.00 | 0.35 | 1.00 | 0.35 | 3.66 | 0.19 | 0.07 | 0.04 | |
| 0 | 1L | -105433 | 9308 | 1061 | 5586 | -- | -- | -- | -4.01 | 0.35 | 1.00 | 0.35 | 3.67 | 0.19 | 0.06 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -23373 | 10464 | -1451 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.27 | 0.67 | -- | -- | |
| l | 1B | -23396 | 10464 | -1451 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.27 | 0.67 | -- | -- | |
| l | 1C | -23373 | 10464 | -1718 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.27 | 0.67 | -- | -- | |
| l | 1D | -23396 | 10464 | -1718 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.27 | 0.67 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -23357 | 10479 | -1265 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.26 | 0.67 | -- | -- | |
| l | 1J | -23412 | 10479 | -1265 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.27 | 0.67 | -- | -- | |
| l | 1K | -23357 | 10479 | -1904 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.26 | 0.67 | -- | -- | |
| l | 1L | -23412 | 10479 | -1904 | -0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.76 | 2.27 | 0.67 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -99743 | 6612 | -36 | -0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.24 | 3.70 | 0.13 | -- | -- | |
| ½ | 1B | -99856 | 6612 | -36 | -0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.24 | 3.70 | 0.13 | -- | -- | |
| ½ | 1C | -99743 | 6612 | -1048 | -0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.24 | 3.70 | 0.13 | -- | -- | |
| ½ | 1D | -99856 | 6612 | -1048 | -0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.24 | 3.70 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -99665 | 6640 | 670 | -0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.24 | 3.70 | 0.13 | -- | -- | |
| ½ | 1J | -99935 | 6640 | 670 | -0 | -- | -- | -- | -3.61 | 0.21 | 1.00 | 0.24 | 3.71 | 0.13 | -- | -- | |
| ½ | 1K | -99665 | 6640 | -1754 | -0 | -- | -- | -- | -3.60 | 0.21 | 1.00 | 0.24 | 3.70 | 0.13 | -- | -- | |
| ½ | 1L | -99935 | 6640 | -1754 | -0 | -- | -- | -- | -3.61 | 0.21 | 1.00 | 0.24 | 3.71 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -54237 | 3306 | 3103 | -0 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.24 | 3.94 | 0.12 | 0.00 | 0.14 | |
| 0 | 1B | -54374 | 3306 | 3103 | -0 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.24 | 3.94 | 0.12 | 0.00 | 0.14 | |
| 0 | 1C | -54237 | 3306 | 2037 | -0 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.24 | 3.94 | 0.12 | 0.00 | 0.09 | |
| 0 | 1D | -54374 | 3306 | 2037 | -0 | -- | -- | -- | -3.92 | 0.23 | 1.00 | 0.24 | 3.94 | 0.12 | 0.00 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54141 | 3320 | 3847 | -0 | -- | -- | -- | -3.91 | 0.23 | 1.00 | 0.24 | 3.93 | 0.12 | 0.00 | 0.18 | |
| 0 | 1J | -54470 | 3320 | 3847 | -0 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.24 | 3.95 | 0.12 | 0.00 | 0.18 | |
| 0 | 1K | -54141 | 3320 | 1294 | -0 | -- | -- | -- | -3.91 | 0.23 | 1.00 | 0.24 | 3.93 | 0.12 | 0.00 | 0.06 | |
| 0 | 1L | -54470 | 3320 | 1294 | -0 | -- | -- | -- | -3.93 | 0.23 | 1.00 | 0.24 | 3.95 | 0.12 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -78883 | 5106 | -1746 | 2895 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1B | -78893 | 5106 | -1746 | 2898 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1C | -78883 | 5106 | -1896 | 2895 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1D | -78893 | 5106 | -1896 | 2898 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -78877 | 5112 | -1642 | 2893 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1J | -78899 | 5112 | -1642 | 2900 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1K | -78877 | 5112 | -2000 | 2893 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1L | -78899 | 5112 | -2000 | 2900 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.15 | 2.38 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -215988 | 10216 | 638 | -1599 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1B | -216048 | 10216 | 638 | -1618 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1C | -215988 | 10216 | 24 | -1599 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1D | -216048 | 10216 | 24 | -1618 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -215947 | 10231 | 1066 | -1586 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1J | -216089 | 10231 | 1066 | -1631 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1K | -215947 | 10231 | -405 | -1586 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1L | -216089 | 10231 | -405 | -1631 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.15 | 3.02 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -118907 | 4101 | 3590 | 4838 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.10 | |
| 0 | 1B | -118942 | 4101 | 3590 | 4841 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.10 | |
| 0 | 1C | -118907 | 4101 | 2881 | 4838 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.08 | |
| 0 | 1D | -118942 | 4101 | 2881 | 4841 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -118883 | 4115 | 4085 | 4835 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.11 | |
| 0 | 1J | -118966 | 4115 | 4085 | 4844 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.11 | |
| 0 | 1K | -118883 | 4115 | 2386 | 4835 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.07 | |
| 0 | 1L | -118966 | 4115 | 2386 | 4844 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.12 | 3.26 | 0.07 | 0.03 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12583 | 1508 | -304 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1B | -12588 | 1508 | -304 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1C | -12583 | 1508 | -307 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1D | -12588 | 1508 | -307 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12579 | 1510 | -303 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1J | -12591 | 1510 | -303 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1K | -12579 | 1510 | -309 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1L | -12591 | 1510 | -309 | 0 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.17 | 1.72 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -66977 | 45 | -557 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1B | -66992 | 45 | -557 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1C | -66977 | 45 | -581 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1D | -66992 | 45 | -581 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -66966 | 48 | -540 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1J | -67003 | 48 | -540 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1K | -66966 | 48 | -598 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1L | -67003 | 48 | -598 | 0 | -- | -- | -- | -3.77 | 0.33 | 1.00 | 0.00 | 3.49 | 0.00 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -36311 | 22 | 1346 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.13 | |
| 0 | 1B | -36322 | 22 | 1346 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.13 | |
| 0 | 1C | -36311 | 22 | 1321 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.13 | |
| 0 | 1D | -36322 | 22 | 1321 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.13 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -36303 | 24 | 1363 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.14 | |
| 0 | 1J | -36330 | 24 | 1363 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.14 | |
| 0 | 1K | -36303 | 24 | 1303 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.13 | |
| 0 | 1L | -36330 | 24 | 1303 | 0 | -- | -- | -- | -4.09 | 0.36 | 1.00 | 0.00 | 3.73 | 0.00 | 0.00 | 0.13 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -60117 | 2134 | -1129 | 7355 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.55 | 0.07 | -- | -- | |
| l | 1B | -60132 | 2134 | -1129 | 7355 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.56 | 0.07 | -- | -- | |
| l | 1C | -60117 | 2134 | -1145 | 7355 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.55 | 0.07 | -- | -- | |
| l | 1D | -60132 | 2134 | -1145 | 7355 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.56 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -60106 | 2137 | -1119 | 7354 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.55 | 0.07 | -- | -- | |
| l | 1J | -60142 | 2137 | -1119 | 7355 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.56 | 0.07 | -- | -- | |
| l | 1K | -60106 | 2137 | -1155 | 7354 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.55 | 0.07 | -- | -- | |
| l | 1L | -60142 | 2137 | -1155 | 7355 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.09 | 2.56 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -153141 | 5414 | -563 | -2055 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1B | -153180 | 5414 | -563 | -2058 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1C | -153141 | 5414 | -598 | -2055 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1D | -153180 | 5414 | -598 | -2058 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -153114 | 5417 | -539 | -2054 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1J | -153208 | 5417 | -539 | -2059 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1K | -153114 | 5417 | -622 | -2054 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1L | -153208 | 5417 | -622 | -2059 | -- | -- | -- | -3.22 | 0.28 | 1.00 | 0.11 | 3.07 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -85993 | 5640 | 1585 | -2995 | -- | -- | -- | -3.61 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1B | -86016 | 5640 | 1585 | -2995 | -- | -- | -- | -3.61 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1C | -85993 | 5640 | 1551 | -2995 | -- | -- | -- | -3.61 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1D | -86016 | 5640 | 1551 | -2995 | -- | -- | -- | -3.61 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -85976 | 5647 | 1609 | -2996 | -- | -- | -- | -3.61 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1J | -86032 | 5647 | 1609 | -2995 | -- | -- | -- | -3.62 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1K | -85976 | 5647 | 1527 | -2996 | -- | -- | -- | -3.61 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1L | -86032 | 5647 | 1527 | -2995 | -- | -- | -- | -3.62 | 0.31 | 1.00 | 0.24 | 3.37 | 0.14 | 0.04 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12274 | 766 | 50 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1B | -12284 | 766 | 50 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1C | -12274 | 766 | 49 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1D | -12284 | 766 | 49 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12267 | 766 | 51 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1J | -12291 | 766 | 51 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1K | -12267 | 766 | 48 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1L | -12291 | 766 | 48 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.11 | 2.03 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -41837 | 537 | 106 | 0 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.04 | 3.00 | 0.03 | -- | -- | |
| ½ | 1B | -41859 | 537 | 106 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.04 | 3.00 | 0.03 | -- | -- | |
| ½ | 1C | -41837 | 537 | 98 | 0 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.04 | 3.00 | 0.03 | -- | -- | |
| ½ | 1D | -41859 | 537 | 98 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.04 | 3.00 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -41821 | 542 | 111 | 0 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.04 | 2.99 | 0.03 | -- | -- | |
| ½ | 1J | -41874 | 542 | 111 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.04 | 3.00 | 0.03 | -- | -- | |
| ½ | 1K | -41821 | 542 | 93 | 0 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.04 | 2.99 | 0.03 | -- | -- | |
| ½ | 1L | -41874 | 542 | 93 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.04 | 3.00 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -24020 | 752 | 34 | 0 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.00 | |
| 0 | 1B | -24035 | 752 | 34 | 0 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.00 | |
| 0 | 1C | -24020 | 752 | 28 | 0 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.00 | |
| 0 | 1D | -24035 | 752 | 28 | 0 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -24009 | 764 | 38 | 0 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.01 | |
| 0 | 1J | -24045 | 764 | 38 | 0 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.01 | |
| 0 | 1K | -24009 | 764 | 23 | 0 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.00 | |
| 0 | 1L | -24045 | 764 | 23 | 0 | -- | -- | -- | -3.58 | 0.31 | 1.00 | 0.11 | 3.34 | 0.07 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -17220 | 1416 | 170 | 0 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.10 | 1.61 | 0.13 | -- | -- | |
| l | 1B | -17244 | 1416 | 170 | 0 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.10 | 1.62 | 0.13 | -- | -- | |
| l | 1C | -17220 | 1416 | 167 | 0 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.10 | 1.61 | 0.13 | -- | -- | |
| l | 1D | -17244 | 1416 | 167 | 0 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.10 | 1.62 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -17203 | 1427 | 172 | 0 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.11 | 1.61 | 0.13 | -- | -- | |
| l | 1J | -17261 | 1427 | 172 | 0 | -- | -- | -- | -1.28 | 0.11 | 1.00 | 0.11 | 1.62 | 0.13 | -- | -- | |
| l | 1K | -17203 | 1427 | 165 | 0 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.11 | 1.61 | 0.13 | -- | -- | |
| l | 1L | -17261 | 1427 | 165 | 0 | -- | -- | -- | -1.28 | 0.11 | 1.00 | 0.11 | 1.62 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -123270 | 5102 | -714 | 1441 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.12 | 2.76 | 0.08 | -- | -- | |
| ½ | 1B | -123476 | 5102 | -714 | 1442 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.12 | 2.76 | 0.08 | -- | -- | |
| ½ | 1C | -123270 | 5102 | -728 | 1441 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.12 | 2.76 | 0.08 | -- | -- | |
| ½ | 1D | -123476 | 5102 | -728 | 1442 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.12 | 2.76 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -123126 | 5169 | -705 | 1441 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.12 | 2.76 | 0.09 | -- | -- | |
| ½ | 1J | -123619 | 5169 | -705 | 1442 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.12 | 2.77 | 0.08 | -- | -- | |
| ½ | 1K | -123126 | 5169 | -738 | 1441 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.12 | 2.76 | 0.09 | -- | -- | |
| ½ | 1L | -123619 | 5169 | -738 | 1442 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.12 | 2.77 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -35215 | 1971 | 59 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.00 | |
| 0 | 1B | -35229 | 1971 | 59 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.00 | |
| 0 | 1C | -35215 | 1971 | 51 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.00 | |
| 0 | 1D | -35229 | 1971 | 51 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -35206 | 1988 | 64 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.01 | |
| 0 | 1J | -35238 | 1988 | 64 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.01 | |
| 0 | 1K | -35206 | 1988 | 45 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.00 | |
| 0 | 1L | -35238 | 1988 | 45 | 0 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.15 | 2.61 | 0.11 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -18313 | 44 | -43 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1B | -18334 | 44 | -43 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1C | -18313 | 44 | -44 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1D | -18334 | 44 | -44 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18298 | 44 | -42 | 0 | -- | -- | -- | -1.51 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1J | -18349 | 44 | -42 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1K | -18298 | 44 | -44 | 0 | -- | -- | -- | -1.51 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1L | -18349 | 44 | -44 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.00 | 1.80 | 0.00 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -137456 | 1817 | -477 | -415 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.03 | 2.63 | 0.03 | -- | -- | |
| ½ | 1B | -137574 | 1817 | -477 | -413 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.03 | 2.63 | 0.03 | -- | -- | |
| ½ | 1C | -137456 | 1817 | -482 | -415 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.03 | 2.63 | 0.03 | -- | -- | |
| ½ | 1D | -137574 | 1817 | -482 | -413 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.03 | 2.63 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -137373 | 1854 | -474 | -417 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.04 | 2.62 | 0.03 | -- | -- | |
| ½ | 1J | -137657 | 1854 | -474 | -411 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.04 | 2.63 | 0.03 | -- | -- | |
| ½ | 1K | -137373 | 1854 | -486 | -417 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.04 | 2.62 | 0.03 | -- | -- | |
| ½ | 1L | -137657 | 1854 | -486 | -411 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.04 | 2.63 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14535 | 30 | -139 | -0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.00 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1B | -14549 | 30 | -139 | -0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.00 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1C | -14535 | 30 | -140 | -0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.00 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1D | -14549 | 30 | -140 | -0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.00 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14526 | 37 | -139 | -0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.01 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1J | -14558 | 37 | -139 | -0 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.01 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1K | -14526 | 37 | -140 | -0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.01 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1L | -14558 | 37 | -140 | -0 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.01 | 2.33 | 0.00 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -22881 | 2047 | 138 | -612 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1B | -22890 | 2047 | 138 | -612 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1C | -22881 | 2047 | 136 | -612 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1D | -22890 | 2047 | 136 | -612 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -22874 | 2048 | 140 | -613 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1J | -22897 | 2048 | 140 | -612 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1K | -22874 | 2048 | 135 | -613 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1L | -22897 | 2048 | 135 | -612 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.05 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -113221 | 5912 | 171 | -1208 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1B | -113239 | 5912 | 171 | -1204 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1C | -113221 | 5912 | 165 | -1208 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1D | -113239 | 5912 | 165 | -1204 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -113209 | 5920 | 175 | -1210 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1J | -113251 | 5920 | 175 | -1202 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1K | -113209 | 5920 | 161 | -1210 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1L | -113251 | 5920 | 161 | -1202 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.17 | 3.13 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -37186 | 2366 | 79 | 1612 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.92 | 0.13 | 0.10 | 0.01 | |
| 0 | 1B | -37207 | 2366 | 79 | 1611 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.93 | 0.13 | 0.10 | 0.01 | |
| 0 | 1C | -37186 | 2366 | 78 | 1612 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.92 | 0.13 | 0.10 | 0.01 | |
| 0 | 1D | -37207 | 2366 | 78 | 1611 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.93 | 0.13 | 0.10 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -37171 | 2377 | 80 | 1612 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.92 | 0.13 | 0.10 | 0.01 | |
| 0 | 1J | -37221 | 2377 | 80 | 1611 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.93 | 0.13 | 0.10 | 0.01 | |
| 0 | 1K | -37171 | 2377 | 77 | 1612 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.92 | 0.13 | 0.10 | 0.01 | |
| 0 | 1L | -37221 | 2377 | 77 | 1611 | -- | -- | -- | -3.02 | 0.26 | 1.00 | 0.19 | 2.93 | 0.13 | 0.10 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -27724 | 2205 | -3568 | 203 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1B | -27744 | 2205 | -3568 | 205 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1C | -27724 | 2205 | -3571 | 203 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1D | -27744 | 2205 | -3571 | 205 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -27710 | 2224 | -3566 | 202 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1J | -27758 | 2224 | -3566 | 206 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1K | -27710 | 2224 | -3573 | 202 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1L | -27758 | 2224 | -3573 | 206 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.18 | 2.37 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -88625 | 2428 | -270 | 1150 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.10 | 3.39 | 0.06 | -- | -- | |
| ½ | 1B | -88674 | 2428 | -270 | 1153 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| ½ | 1C | -88625 | 2428 | -270 | 1150 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.10 | 3.39 | 0.06 | -- | -- | |
| ½ | 1D | -88674 | 2428 | -270 | 1153 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -88590 | 2441 | -270 | 1148 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.10 | 3.39 | 0.06 | -- | -- | |
| ½ | 1J | -88709 | 2441 | -270 | 1155 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| ½ | 1K | -88590 | 2441 | -270 | 1148 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.10 | 3.39 | 0.06 | -- | -- | |
| ½ | 1L | -88709 | 2441 | -270 | 1155 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48172 | 5940 | 5513 | 417 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.49 | 3.63 | 0.27 | 0.02 | 0.41 | |
| 0 | 1B | -48206 | 5940 | 5513 | 417 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.49 | 3.63 | 0.27 | 0.02 | 0.41 | |
| 0 | 1C | -48172 | 5940 | 5513 | 417 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.49 | 3.63 | 0.27 | 0.02 | 0.41 | |
| 0 | 1D | -48206 | 5940 | 5513 | 417 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.49 | 3.63 | 0.27 | 0.02 | 0.41 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48148 | 5947 | 5513 | 417 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.49 | 3.63 | 0.27 | 0.02 | 0.41 | |
| 0 | 1J | -48230 | 5947 | 5513 | 417 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.49 | 3.64 | 0.27 | 0.02 | 0.41 | |
| 0 | 1K | -48148 | 5947 | 5513 | 417 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.49 | 3.63 | 0.27 | 0.02 | 0.41 | |
| 0 | 1L | -48230 | 5947 | 5513 | 417 | -- | -- | -- | -3.97 | 0.34 | 1.00 | 0.49 | 3.64 | 0.27 | 0.02 | 0.40 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -27361 | 4194 | -3177 | 420 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1B | -27371 | 4194 | -3177 | 420 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1C | -27361 | 4194 | -3179 | 420 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1D | -27371 | 4194 | -3179 | 420 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -27353 | 4209 | -3175 | 419 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1J | -27379 | 4209 | -3175 | 420 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1K | -27353 | 4209 | -3181 | 419 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1L | -27379 | 4209 | -3181 | 420 | -- | -- | -- | -2.49 | 0.22 | 1.00 | 0.38 | 2.53 | 0.30 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -86715 | 2723 | -599 | -943 | -- | -- | -- | -3.94 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1B | -86759 | 2723 | -599 | -944 | -- | -- | -- | -3.94 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1C | -86715 | 2723 | -600 | -943 | -- | -- | -- | -3.94 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1D | -86759 | 2723 | -600 | -944 | -- | -- | -- | -3.94 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -86684 | 2736 | -598 | -943 | -- | -- | -- | -3.94 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1J | -86790 | 2736 | -598 | -944 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1K | -86684 | 2736 | -600 | -943 | -- | -- | -- | -3.94 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1L | -86790 | 2736 | -600 | -944 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.12 | 3.62 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -46844 | 4930 | 5165 | 582 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.85 | 0.23 | 0.04 | 0.41 | |
| 0 | 1B | -46881 | 4930 | 5165 | 582 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.86 | 0.23 | 0.04 | 0.41 | |
| 0 | 1C | -46844 | 4930 | 5164 | 582 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.85 | 0.23 | 0.04 | 0.41 | |
| 0 | 1D | -46881 | 4930 | 5164 | 582 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.86 | 0.23 | 0.04 | 0.41 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46818 | 4937 | 5165 | 582 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.85 | 0.23 | 0.04 | 0.41 | |
| 0 | 1J | -46907 | 4937 | 5165 | 583 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.86 | 0.23 | 0.04 | 0.41 | |
| 0 | 1K | -46818 | 4937 | 5164 | 582 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.85 | 0.23 | 0.04 | 0.41 | |
| 0 | 1L | -46907 | 4937 | 5164 | 583 | -- | -- | -- | -4.26 | 0.37 | 1.00 | 0.45 | 3.86 | 0.23 | 0.04 | 0.41 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14796 | 108 | -97 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.01 | 2.20 | 0.01 | -- | -- | |
| l | 1B | -14826 | 108 | -97 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.01 | 2.20 | 0.01 | -- | -- | |
| l | 1C | -14796 | 108 | -101 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.01 | 2.20 | 0.01 | -- | -- | |
| l | 1D | -14826 | 108 | -101 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.01 | 2.20 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14774 | 122 | -95 | 0 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.02 | 2.19 | 0.02 | -- | -- | |
| l | 1J | -14848 | 122 | -95 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.02 | 2.20 | 0.02 | -- | -- | |
| l | 1K | -14774 | 122 | -104 | 0 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.02 | 2.19 | 0.02 | -- | -- | |
| l | 1L | -14848 | 122 | -104 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.02 | 2.20 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -53989 | 1916 | -488 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.12 | 3.30 | 0.08 | -- | -- | |
| ½ | 1B | -54006 | 1916 | -488 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.12 | 3.30 | 0.08 | -- | -- | |
| ½ | 1C | -53989 | 1916 | -490 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.12 | 3.30 | 0.08 | -- | -- | |
| ½ | 1D | -54006 | 1916 | -490 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.12 | 3.30 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -53978 | 1925 | -487 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.13 | 3.30 | 0.08 | -- | -- | |
| ½ | 1J | -54017 | 1925 | -487 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.13 | 3.30 | 0.08 | -- | -- | |
| ½ | 1K | -53978 | 1925 | -492 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.13 | 3.30 | 0.08 | -- | -- | |
| ½ | 1L | -54017 | 1925 | -492 | -57 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.13 | 3.30 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27570 | 317 | 773 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.04 | 3.52 | 0.02 | 0.00 | 0.10 | |
| 0 | 1B | -27584 | 317 | 773 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.04 | 3.52 | 0.02 | 0.00 | 0.10 | |
| 0 | 1C | -27570 | 317 | 772 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.04 | 3.52 | 0.02 | 0.00 | 0.10 | |
| 0 | 1D | -27584 | 317 | 772 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.04 | 3.52 | 0.02 | 0.00 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27561 | 321 | 774 | 0 | -- | -- | -- | -3.81 | 0.33 | 1.00 | 0.04 | 3.52 | 0.03 | 0.00 | 0.10 | |
| 0 | 1J | -27593 | 321 | 774 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.04 | 3.52 | 0.03 | 0.00 | 0.10 | |
| 0 | 1K | -27561 | 321 | 771 | 0 | -- | -- | -- | -3.81 | 0.33 | 1.00 | 0.04 | 3.52 | 0.03 | 0.00 | 0.10 | |
| 0 | 1L | -27593 | 321 | 771 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.04 | 3.52 | 0.03 | 0.00 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -42617 | 646 | 72 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1B | -42623 | 646 | 72 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1C | -42617 | 646 | 70 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1D | -42623 | 646 | 70 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -42613 | 647 | 73 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1J | -42627 | 647 | 73 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1K | -42613 | 647 | 68 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1L | -42627 | 647 | 68 | -1379 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.04 | 2.80 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -55521 | 5052 | -973 | 1941 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1B | -55533 | 5052 | -973 | 1943 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1C | -55521 | 5052 | -978 | 1941 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1D | -55533 | 5052 | -978 | 1943 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -55513 | 5055 | -969 | 1939 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1J | -55541 | 5055 | -969 | 1945 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1K | -55513 | 5055 | -982 | 1939 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1L | -55541 | 5055 | -982 | 1945 | -- | -- | -- | -3.71 | 0.32 | 1.00 | 0.34 | 3.44 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -59186 | 5052 | -3539 | -2466 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1B | -59201 | 5052 | -3539 | -2468 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1C | -59186 | 5052 | -3550 | -2466 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1D | -59201 | 5052 | -3550 | -2468 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -59176 | 5055 | -3531 | -2464 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1J | -59211 | 5055 | -3531 | -2470 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1K | -59176 | 5055 | -3558 | -2464 | -- | -- | -- | -3.95 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1L | -59211 | 5055 | -3558 | -2470 | -- | -- | -- | -3.96 | 0.34 | 1.00 | 0.34 | 3.63 | 0.19 | 0.07 | 0.25 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 408.00 cm

| P o s | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -72226 | 2686 | -2942 | 5557 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1B | -72235 | 2686 | -2942 | 5558 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1C | -72226 | 2686 | -2952 | 5557 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1D | -72235 | 2686 | -2952 | 5558 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -72220 | 2690 | -2936 | 5555 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1J | -72241 | 2690 | -2936 | 5559 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1K | -72220 | 2690 | -2959 | 5555 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1L | -72241 | 2690 | -2959 | 5559 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.09 | 2.47 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -79554 | 2522 | -303 | 3042 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1B | -79574 | 2522 | -303 | 3046 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1C | -79554 | 2522 | -309 | 3042 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1D | -79574 | 2522 | -309 | 3046 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -79539 | 2526 | -299 | 3040 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1J | -79588 | 2526 | -299 | 3048 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1K | -79539 | 2526 | -313 | 3040 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1L | -79588 | 2526 | -313 | 3048 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.08 | 2.65 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -86885 | 2523 | 2340 | 208 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.09 | |
| 0 | 1B | -86915 | 2523 | 2340 | 208 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.09 | |
| 0 | 1C | -86885 | 2523 | 2331 | 208 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.08 | |
| 0 | 1D | -86915 | 2523 | 2331 | 208 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -86863 | 2527 | 2347 | 208 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.09 | |
| 0 | 1J | -86936 | 2527 | 2347 | 209 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.09 | |
| 0 | 1K | -86863 | 2527 | 2325 | 208 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.08 | |
| 0 | 1L | -86936 | 2527 | 2325 | 209 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.08 | 2.84 | 0.06 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -66435 | 2223 | -5688 | 1273 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1B | -66442 | 2223 | -5688 | 1275 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1C | -66435 | 2223 | -5695 | 1273 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1D | -66442 | 2223 | -5695 | 1275 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -66431 | 2224 | -5683 | 1272 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1J | -66447 | 2224 | -5683 | 1276 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1K | -66431 | 2224 | -5700 | 1272 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1L | -66447 | 2224 | -5700 | 1276 | -- | -- | -- | -3.67 | 0.32 | 1.00 | 0.12 | 3.42 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -70863 | 442 | -896 | 805 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1B | -70874 | 442 | -896 | 807 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1C | -70863 | 442 | -899 | 805 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1D | -70874 | 442 | -899 | 807 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -70855 | 443 | -894 | 803 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1J | -70882 | 443 | -894 | 809 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1K | -70855 | 443 | -901 | 803 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1L | -70882 | 443 | -901 | 809 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.02 | 3.60 | 0.01 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -75283 | 3315 | 3900 | 454 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1B | -75301 | 3315 | 3900 | 456 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1C | -75283 | 3315 | 3896 | 454 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1D | -75301 | 3315 | 3896 | 456 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -75271 | 3316 | 3904 | 453 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1J | -75313 | 3316 | 3904 | 457 | -- | -- | -- | -4.17 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1K | -75271 | 3316 | 3892 | 453 | -- | -- | -- | -4.16 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1L | -75313 | 3316 | 3892 | 457 | -- | -- | -- | -4.17 | 0.36 | 1.00 | 0.18 | 3.78 | 0.10 | 0.01 | 0.20 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -69569 | 2997 | -7394 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1B | -69574 | 2997 | -7394 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1C | -69569 | 2997 | -7402 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1D | -69574 | 2997 | -7402 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -69565 | 2999 | -7389 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1J | -69578 | 2999 | -7389 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1K | -69565 | 2999 | -7408 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1L | -69578 | 2999 | -7408 | 817 | -- | -- | -- | -4.26 | 0.25 | 1.00 | 0.18 | 4.19 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -73555 | 1370 | 597 | 1674 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1B | -73566 | 1370 | 597 | 1676 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1C | -73555 | 1370 | 595 | 1674 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1D | -73566 | 1370 | 595 | 1676 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -73547 | 1371 | 599 | 1673 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1J | -73574 | 1371 | 599 | 1677 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1K | -73547 | 1371 | 593 | 1673 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1L | -73574 | 1371 | 593 | 1677 | -- | -- | -- | -4.50 | 0.26 | 1.00 | 0.08 | 4.38 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -77553 | 8873 | 8598 | 3044 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1B | -77573 | 8873 | 8598 | 3046 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1C | -77553 | 8873 | 8590 | 3044 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1D | -77573 | 8873 | 8590 | 3046 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -77540 | 8875 | 8604 | 3042 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1J | -77586 | 8875 | 8604 | 3048 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1K | -77540 | 8875 | 8585 | 3042 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1L | -77586 | 8875 | 8585 | 3048 | -- | -- | -- | -4.75 | 0.28 | 1.00 | 0.54 | 4.56 | 0.24 | 0.07 | 0.35 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -59731 | 2081 | -1367 | 1643 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1B | -59736 | 2081 | -1367 | 1644 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1C | -59731 | 2081 | -1368 | 1643 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1D | -59736 | 2081 | -1368 | 1644 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -59727 | 2082 | -1367 | 1642 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1J | -59739 | 2082 | -1367 | 1645 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1K | -59727 | 2082 | -1368 | 1642 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1L | -59739 | 2082 | -1368 | 1645 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.10 | 2.91 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -64591 | 2077 | 1940 | 3577 | -- -- | -- | -3.24 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1B | -64604 | 2077 | 1940 | 3579 | -- -- | -- | -3.25 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1C | -64591 | 2077 | 1940 | 3577 | -- -- | -- | -3.24 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1D | -64604 | 2077 | 1940 | 3579 | -- -- | -- | -3.25 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -64583 | 2079 | 1940 | 3577 | -- -- | -- | -3.24 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1J | -64612 | 2079 | 1940 | 3580 | -- -- | -- | -3.25 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1K | -64583 | 2079 | 1939 | 3577 | -- -- | -- | -3.24 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1L | -64612 | 2079 | 1939 | 3580 | -- -- | -- | -3.25 | 0.28 | 1.00 | 0.10 | 3.09 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -69459 | 2072 | 5246 | 5786 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1B | -69479 | 2072 | 5246 | 5787 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1C | -69459 | 2072 | 5245 | 5786 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1D | -69479 | 2072 | 5245 | 5787 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -69446 | 2074 | 5247 | 5785 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1J | -69492 | 2074 | 5247 | 5788 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1K | -69446 | 2074 | 5245 | 5785 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1L | -69492 | 2074 | 5245 | 5788 | -- -- | -- | -3.49 | 0.30 | 1.00 | 0.10 | 3.28 | 0.06 | 0.12 | 0.26 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -14133 | 90 | -42 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1B | -14134 | 90 | -42 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1C | -14133 | 90 | -43 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1D | -14134 | 90 | -43 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14132 | 90 | -42 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1J | -14134 | 90 | -42 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1K | -14132 | 90 | -43 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1L | -14134 | 90 | -43 | 0 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.02 | 2.49 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -57081 | 375 | -432 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1B | -57087 | 375 | -432 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1C | -57081 | 375 | -432 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1D | -57087 | 375 | -432 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -57077 | 376 | -431 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1J | -57091 | 376 | -431 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1K | -57077 | 376 | -433 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1L | -57091 | 376 | -433 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.02 | 2.51 | 0.01 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -33723 | 515 | 1405 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1B | -33729 | 515 | 1405 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1C | -33723 | 515 | 1405 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1D | -33729 | 515 | 1405 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -33719 | 516 | 1406 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1J | -33733 | 516 | 1406 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1K | -33719 | 516 | 1404 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1L | -33733 | 516 | 1404 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.04 | 2.85 | 0.03 | 0.00 | 0.13 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -25593 | 1890 | 132 | -1682 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1B | -25599 | 1890 | 132 | -1681 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1C | -25593 | 1890 | 128 | -1682 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1D | -25599 | 1890 | 128 | -1681 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -25589 | 1893 | 134 | -1682 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1J | -25603 | 1893 | 134 | -1680 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1K | -25589 | 1893 | 125 | -1682 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1L | -25603 | 1893 | 125 | -1680 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.13 | 1.97 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -29925 | 985 | -783 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.54 | 0.06 | -- | -- | |
| ½ | 1B | -29927 | 985 | -783 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.54 | 0.06 | -- | -- | |
| ½ | 1C | -29925 | 985 | -785 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.54 | 0.06 | -- | -- | |
| ½ | 1D | -29927 | 985 | -785 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.54 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -29924 | 987 | -781 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.53 | 0.07 | -- | -- | |
| ½ | 1J | -29929 | 987 | -781 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.54 | 0.07 | -- | -- | |
| ½ | 1K | -29924 | 987 | -787 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.53 | 0.07 | -- | -- | |
| ½ | 1L | -29929 | 987 | -787 | 767 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.08 | 2.54 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -32493 | 1210 | -317 | -1625 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1B | -32495 | 1210 | -317 | -1625 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1C | -32493 | 1210 | -319 | -1625 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1D | -32495 | 1210 | -319 | -1625 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -32491 | 1211 | -316 | -1626 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1J | -32497 | 1211 | -316 | -1624 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1K | -32491 | 1211 | -320 | -1626 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1L | -32497 | 1211 | -320 | -1624 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.32 | 0.07 | 0.08 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -28508 | 2888 | -845 | -2252 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1B | -28515 | 2888 | -845 | -2253 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1C | -28508 | 2888 | -849 | -2252 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1D | -28515 | 2888 | -849 | -2253 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -28504 | 2889 | -842 | -2251 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1J | -28519 | 2889 | -842 | -2254 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1K | -28504 | 2889 | -852 | -2251 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1L | -28519 | 2889 | -852 | -2254 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.17 | 1.93 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -56019 | 854 | -1515 | -1137 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1B | -56025 | 854 | -1515 | -1136 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1C | -56019 | 854 | -1520 | -1137 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1D | -56025 | 854 | -1520 | -1136 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -56014 | 857 | -1511 | -1137 | -- | -- | -- | -2.73 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1J | -56029 | 857 | -1511 | -1136 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1K | -56014 | 857 | -1524 | -1137 | -- | -- | -- | -2.73 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1L | -56029 | 857 | -1524 | -1136 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.04 | 2.71 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -46404 | 2344 | 338 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1B | -46413 | 2344 | 338 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1C | -46404 | 2344 | 329 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1D | -46413 | 2344 | 329 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -46398 | 2346 | 345 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1J | -46419 | 2346 | 345 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1K | -46398 | 2346 | 323 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1L | -46419 | 2346 | 323 | 4628 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.13 | 2.57 | 0.10 | 0.14 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -37710 | 2686 | -1857 | 476 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1B | -37712 | 2686 | -1857 | 477 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1C | -37710 | 2686 | -1871 | 476 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1D | -37712 | 2686 | -1871 | 477 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -37708 | 2687 | -1847 | 476 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1J | -37714 | 2687 | -1847 | 477 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1K | -37708 | 2687 | -1881 | 476 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1L | -37714 | 2687 | -1881 | 477 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.13 | 2.05 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -106555 | 2267 | -3370 | -153 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1B | -106559 | 2267 | -3370 | -154 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1C | -106555 | 2267 | -3406 | -153 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1D | -106559 | 2267 | -3406 | -154 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -106552 | 2268 | -3345 | -153 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1J | -106562 | 2268 | -3345 | -154 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1K | -106552 | 2268 | -3431 | -153 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1L | -106562 | 2268 | -3431 | -154 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.06 | 2.62 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -59935 | 2199 | -959 | 991 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1B | -59938 | 2199 | -959 | 991 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1C | -59935 | 2199 | -1000 | 991 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1D | -59938 | 2199 | -1000 | 991 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -59933 | 2201 | -931 | 991 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1J | -59940 | 2201 | -931 | 992 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1K | -59933 | 2201 | -1029 | 991 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1L | -59940 | 2201 | -1029 | 992 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.11 | 2.86 | 0.08 | 0.02 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -21558 | 1398 | -272 | 2423 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1B | -21561 | 1398 | -272 | 2421 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1C | -21558 | 1398 | -286 | 2423 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1D | -21561 | 1398 | -286 | 2421 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -21556 | 1401 | -262 | 2424 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1J | -21563 | 1401 | -262 | 2420 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1K | -21556 | 1401 | -296 | 2424 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1L | -21563 | 1401 | -296 | 2420 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.10 | 1.78 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -103364 | 2062 | -3007 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1B | -103375 | 2062 | -3007 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1C | -103364 | 2062 | -3072 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1D | -103375 | 2062 | -3072 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -103356 | 2067 | -2962 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1J | -103383 | 2067 | -2962 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1K | -103356 | 2067 | -3117 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1L | -103383 | 2067 | -3117 | 494 | -- | -- | -- | -2.48 | 0.22 | 1.00 | 0.05 | 2.52 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -59074 | 2710 | -2041 | 617 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.10 | |
| 0 | 1B | -59083 | 2710 | -2041 | 620 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.10 | |
| 0 | 1C | -59074 | 2710 | -2101 | 617 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.11 | |
| 0 | 1D | -59083 | 2710 | -2101 | 620 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -59067 | 2713 | -1999 | 615 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.10 | |
| 0 | 1J | -59089 | 2713 | -1999 | 621 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.10 | |
| 0 | 1K | -59067 | 2713 | -2143 | 615 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.11 | |
| 0 | 1L | -59089 | 2713 | -2143 | 621 | -- | -- | -- | -2.84 | 0.25 | 1.00 | 0.13 | 2.79 | 0.09 | 0.01 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -22117 | 274 | -715 | 402 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1B | -22118 | 274 | -715 | 401 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1C | -22117 | 274 | -722 | 402 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1D | -22118 | 274 | -722 | 401 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -22116 | 283 | -711 | 402 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1J | -22119 | 283 | -711 | 401 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1K | -22116 | 283 | -727 | 402 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1L | -22119 | 283 | -727 | 401 | -- | -- | -- | -1.69 | 0.15 | 1.00 | 0.02 | 1.92 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -70083 | 920 | -1403 | 61 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1B | -70099 | 920 | -1403 | 60 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1C | -70083 | 920 | -1421 | 61 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1D | -70099 | 920 | -1421 | 60 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -70072 | 925 | -1391 | 61 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1J | -70110 | 925 | -1391 | 60 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1K | -70072 | 925 | -1433 | 61 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1L | -70110 | 925 | -1433 | 60 | -- | -- | -- | -2.67 | 0.23 | 1.00 | 0.04 | 2.66 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -39325 | 2048 | 91 | -115 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.01 | |
| 0 | 1B | -39342 | 2048 | 91 | -115 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.01 | |
| 0 | 1C | -39325 | 2048 | 68 | -115 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.01 | |
| 0 | 1D | -39342 | 2048 | 68 | -115 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -39313 | 2050 | 107 | -114 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.01 | |
| 0 | 1J | -39354 | 2050 | 107 | -115 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.01 | |
| 0 | 1K | -39313 | 2050 | 52 | -114 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.00 | |
| 0 | 1L | -39354 | 2050 | 52 | -115 | -- | -- | -- | -3.00 | 0.26 | 1.00 | 0.16 | 2.91 | 0.11 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -18614 | 693 | -29 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1B | -18616 | 693 | -29 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1C | -18614 | 693 | -31 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1D | -18616 | 693 | -31 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18613 | 697 | -29 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1J | -18617 | 697 | -29 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1K | -18613 | 697 | -32 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1L | -18617 | 697 | -32 | -124 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.05 | 1.60 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -66354 | 1967 | -896 | -119 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1B | -66365 | 1967 | -896 | -119 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1C | -66354 | 1967 | -902 | -119 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1D | -66365 | 1967 | -902 | -119 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -66346 | 1971 | -892 | -118 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1J | -66373 | 1971 | -892 | -120 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1K | -66346 | 1971 | -906 | -118 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1L | -66373 | 1971 | -906 | -120 | -- | -- | -- | -2.23 | 0.19 | 1.00 | 0.07 | 2.33 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -40012 | 2944 | -465 | -115 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1B | -40025 | 2944 | -465 | -118 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1C | -40012 | 2944 | -474 | -115 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1D | -40025 | 2944 | -474 | -118 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40003 | 2947 | -458 | -114 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1J | -40034 | 2947 | -458 | -119 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1K | -40003 | 2947 | -481 | -114 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1L | -40034 | 2947 | -481 | -119 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.20 | 2.68 | 0.15 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -20682 | 377 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1B | -20684 | 377 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1C | -20682 | 377 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1D | -20684 | 377 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -20682 | 378 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1J | -20685 | 378 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1K | -20682 | 378 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1L | -20685 | 378 | -151 | 418 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.02 | 1.68 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -71006 | 1046 | -292 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1B | -71010 | 1046 | -292 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1C | -71006 | 1046 | -293 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1D | -71010 | 1046 | -293 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -71003 | 1046 | -291 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1J | -71012 | 1046 | -291 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1K | -71003 | 1046 | -294 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1L | -71012 | 1046 | -294 | 392 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.03 | 2.41 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -45137 | 4349 | 28 | -177 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1B | -45142 | 4349 | 28 | -178 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1C | -45137 | 4349 | 27 | -177 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1D | -45142 | 4349 | 27 | -178 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -45133 | 4350 | 29 | -177 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1J | -45146 | 4350 | 29 | -179 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1K | -45133 | 4350 | 26 | -177 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1L | -45146 | 4350 | 26 | -179 | -- | -- | -- | -2.97 | 0.26 | 1.00 | 0.29 | 2.89 | 0.20 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -25215 | 2658 | -161 | 118 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1B | -25216 | 2658 | -161 | 119 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1C | -25215 | 2658 | -161 | 118 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1D | -25216 | 2658 | -161 | 119 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -25215 | 2659 | -161 | 118 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1J | -25216 | 2659 | -161 | 119 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1K | -25215 | 2659 | -161 | 118 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1L | -25216 | 2659 | -161 | 119 | -- | -- | -- | -1.41 | 0.12 | 1.00 | 0.15 | 1.71 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -82262 | 3905 | -314 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1B | -82265 | 3905 | -314 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1C | -82262 | 3905 | -315 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1D | -82265 | 3905 | -315 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -82260 | 3906 | -314 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1J | -82268 | 3906 | -314 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1K | -82260 | 3906 | -315 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1L | -82268 | 3906 | -315 | 491 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -47147 | 1827 | -137 | -1032 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1B | -47150 | 1827 | -137 | -1033 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1C | -47147 | 1827 | -137 | -1032 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1D | -47150 | 1827 | -137 | -1033 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -47145 | 1827 | -137 | -1032 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1J | -47153 | 1827 | -137 | -1033 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1K | -47145 | 1827 | -138 | -1032 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1L | -47153 | 1827 | -138 | -1033 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.10 | 2.63 | 0.08 | 0.03 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -25251 | 4000 | 124 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1B | -25251 | 4000 | 124 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1C | -25251 | 4000 | 124 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1D | -25251 | 4000 | 124 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -25251 | 4002 | 124 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1J | -25252 | 4002 | 124 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1K | -25251 | 4002 | 123 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1L | -25252 | 4002 | 123 | 271 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.24 | 1.78 | 0.27 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -86968 | 2308 | -308 | 820 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1B | -86971 | 2308 | -308 | 821 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1C | -86968 | 2308 | -309 | 820 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1D | -86971 | 2308 | -309 | 821 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -86965 | 2309 | -307 | 820 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1J | -86973 | 2309 | -307 | 821 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1K | -86965 | 2309 | -310 | 820 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1L | -86973 | 2309 | -310 | 821 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.07 | 2.58 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -53727 | 5262 | 79 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1B | -53732 | 5262 | 79 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1C | -53727 | 5262 | 78 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1D | -53732 | 5262 | 78 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -53724 | 5263 | 80 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1J | -53735 | 5263 | 80 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1K | -53724 | 5263 | 77 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1L | -53735 | 5263 | 77 | -1255 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.31 | 3.04 | 0.20 | 0.04 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -53315 | 3478 | -7339 | 1182 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1B | -53318 | 3478 | -7339 | 1182 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1C | -53315 | 3478 | -7342 | 1182 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1D | -53318 | 3478 | -7342 | 1182 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -53313 | 3481 | -7336 | 1181 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1J | -53320 | 3481 | -7336 | 1183 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1K | -53313 | 3481 | -7344 | 1181 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1L | -53320 | 3481 | -7344 | 1183 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.16 | 2.55 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -139746 | 2399 | -2474 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1B | -139751 | 2399 | -2474 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1C | -139746 | 2399 | -2475 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1D | -139751 | 2399 | -2475 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -139742 | 2401 | -2474 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1J | -139754 | 2401 | -2474 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1K | -139742 | 2401 | -2476 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1L | -139754 | 2401 | -2476 | 2366 | -- | -- | -- | -3.30 | 0.29 | 1.00 | 0.06 | 3.14 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -76974 | 6134 | 6141 | 2857 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1B | -76980 | 6134 | 6141 | 2858 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1C | -76974 | 6134 | 6140 | 2857 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1D | -76980 | 6134 | 6140 | 2858 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -76969 | 6135 | 6141 | 2857 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1J | -76985 | 6135 | 6141 | 2859 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1K | -76969 | 6135 | 6139 | 2857 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1L | -76985 | 6135 | 6139 | 2859 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.29 | 3.39 | 0.17 | 0.05 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ kg/cm² | $\beta$ kg/cm² | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ kg/cm² | $I_{rMz}$ $I_{rM}$ kg/cm² | $I_{rMy}$ $I_{rMfp}$ kg/cm² | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -44627 | 3573 | -35 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1B | -44628 | 3573 | -35 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1C | -44627 | 3573 | -36 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1D | -44628 | 3573 | -36 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -44626 | 3577 | -35 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1J | -44628 | 3577 | -35 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1K | -44626 | 3577 | -36 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1L | -44628 | 3577 | -36 | 1015 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.16 | 2.19 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -141018 | 3915 | 1240 | -208 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1B | -141024 | 3915 | 1240 | -208 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1C | -141018 | 3915 | 1240 | -208 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1D | -141024 | 3915 | 1240 | -208 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -141015 | 3918 | 1241 | -208 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1J | -141028 | 3918 | 1241 | -209 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1K | -141015 | 3918 | 1239 | -208 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1L | -141028 | 3918 | 1239 | -209 | -- | -- | -- | -3.23 | 0.28 | 1.00 | 0.09 | 3.08 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -83793 | 3901 | 2577 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1B | -83802 | 3901 | 2577 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1C | -83793 | 3901 | 2576 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1D | -83802 | 3901 | 2576 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -83787 | 3902 | 2577 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1J | -83808 | 3902 | 2577 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1K | -83787 | 3902 | 2575 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1L | -83808 | 3902 | 2575 | 706 | -- | -- | -- | -3.84 | 0.33 | 1.00 | 0.18 | 3.54 | 0.10 | 0.01 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -43798 | 3842 | -7377 | 518 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1B | -43800 | 3842 | -7377 | 519 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1C | -43798 | 3842 | -7380 | 518 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1D | -43800 | 3842 | -7380 | 519 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -43796 | 3843 | -7376 | 518 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1J | -43802 | 3843 | -7376 | 519 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1K | -43796 | 3843 | -7382 | 518 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1L | -43802 | 3843 | -7382 | 519 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.23 | 2.65 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -118409 | 4199 | -2646 | -1198 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1B | -118416 | 4199 | -2646 | -1199 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1C | -118409 | 4199 | -2648 | -1198 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1D | -118416 | 4199 | -2648 | -1199 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -118404 | 4201 | -2645 | -1198 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1J | -118420 | 4201 | -2645 | -1199 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1K | -118404 | 4201 | -2650 | -1198 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1L | -118420 | 4201 | -2650 | -1199 | -- | -- | -- | -3.59 | 0.31 | 1.00 | 0.13 | 3.35 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -64747 | 7187 | 6466 | 966 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1B | -64754 | 7187 | 6466 | 967 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1C | -64747 | 7187 | 6464 | 966 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1D | -64754 | 7187 | 6464 | 967 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -64743 | 7188 | 6468 | 965 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1J | -64758 | 7188 | 6468 | 967 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1K | -64743 | 7188 | 6462 | 965 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1L | -64758 | 7188 | 6462 | 967 | -- | -- | -- | -3.92 | 0.34 | 1.00 | 0.44 | 3.60 | 0.24 | 0.03 | 0.35 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -11740 | 4000 | 31 | 0 | -- | -- | -- | -1.50 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1B | -11741 | 4000 | 31 | 0 | -- | -- | -- | -1.51 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1C | -11740 | 4000 | 31 | 0 | -- | -- | -- | -1.50 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1D | -11741 | 4000 | 31 | 0 | -- | -- | -- | -1.51 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -11739 | 4001 | 31 | 0 | -- | -- | -- | -1.50 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1J | -11742 | 4001 | 31 | 0 | -- | -- | -- | -1.51 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1K | -11739 | 4001 | 31 | 0 | -- | -- | -- | -1.50 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1L | -11742 | 4001 | 31 | 0 | -- | -- | -- | -1.51 | 0.09 | 1.00 | 0.51 | 2.13 | 0.48 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -44877 | 2560 | 203 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1B | -44881 | 2560 | 203 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1C | -44877 | 2560 | 202 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1D | -44881 | 2560 | 202 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -44874 | 2560 | 204 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1J | -44885 | 2560 | 204 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1K | -44874 | 2560 | 201 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1L | -44885 | 2560 | 201 | 0 | -- | -- | -- | -2.88 | 0.17 | 1.00 | 0.16 | 3.16 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -23861 | 86 | 879 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1B | -23865 | 86 | 879 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1C | -23861 | 86 | 878 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1D | -23865 | 86 | 878 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23859 | 86 | 879 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1J | -23868 | 86 | 879 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1K | -23859 | 86 | 877 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1L | -23868 | 86 | 877 | 0 | -- | -- | -- | -3.06 | 0.18 | 1.00 | 0.01 | 3.29 | 0.01 | 0.00 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -9220 | 849 | 0 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1B | -9221 | 849 | 0 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1C | -9220 | 849 | 0 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1D | -9221 | 849 | 0 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -9219 | 850 | 1 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1J | -9222 | 850 | 1 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1K | -9219 | 850 | -0 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1L | -9222 | 850 | -0 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -16692 | 1142 | -38 | 0 | -- | -- | -- | -3.85 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1B | -16698 | 1142 | -38 | 0 | -- | -- | -- | -3.86 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1C | -16692 | 1142 | -39 | 0 | -- | -- | -- | -3.85 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1D | -16698 | 1142 | -39 | 0 | -- | -- | -- | -3.86 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -16688 | 1143 | -38 | 0 | -- | -- | -- | -3.85 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1J | -16702 | 1143 | -38 | 0 | -- | -- | -- | -3.86 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1K | -16688 | 1143 | -39 | 0 | -- | -- | -- | -3.85 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1L | -16702 | 1143 | -39 | 0 | -- | -- | -- | -3.86 | 0.34 | 1.00 | 0.26 | 3.55 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -16538 | 401 | -52 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1B | -16540 | 401 | -52 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1C | -16538 | 401 | -52 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1D | -16540 | 401 | -52 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -16537 | 402 | -51 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1J | -16542 | 402 | -51 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1K | -16537 | 402 | -52 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1L | -16542 | 402 | -52 | 0 | -- | -- | -- | -3.82 | 0.33 | 1.00 | 0.09 | 3.52 | 0.05 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -26544 | 7534 | -241 | 382 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1B | -26551 | 7534 | -241 | 383 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1C | -26544 | 7534 | -242 | 382 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1D | -26551 | 7534 | -242 | 383 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -26538 | 7538 | -240 | 381 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1J | -26557 | 7538 | -240 | 383 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1K | -26538 | 7538 | -243 | 381 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1L | -26557 | 7538 | -243 | 383 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.49 | 1.96 | 0.50 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -50476 | 2304 | -139 | -2123 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1B | -50482 | 2304 | -139 | -2125 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1C | -50476 | 2304 | -141 | -2123 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1D | -50482 | 2304 | -141 | -2125 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -50473 | 2312 | -138 | -2122 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1J | -50485 | 2312 | -138 | -2126 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1K | -50473 | 2312 | -142 | -2122 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1L | -50485 | 2312 | -142 | -2126 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.13 | 2.77 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -51107 | 4432 | 1023 | -4184 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1B | -51118 | 4432 | 1023 | -4187 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1C | -51107 | 4432 | 1020 | -4184 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1D | -51118 | 4432 | 1020 | -4187 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51099 | 4440 | 1025 | -4181 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1J | -51125 | 4440 | 1025 | -4190 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1K | -51099 | 4440 | 1019 | -4181 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1L | -51125 | 4440 | 1019 | -4190 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.28 | 3.10 | 0.18 | 0.14 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -45109 | 4148 | -267 | -1545 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1B | -45118 | 4148 | -267 | -1543 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1C | -45109 | 4148 | -268 | -1545 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1D | -45118 | 4148 | -268 | -1543 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -45102 | 4154 | -266 | -1546 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1J | -45125 | 4154 | -266 | -1542 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1K | -45102 | 4154 | -269 | -1546 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1L | -45125 | 4154 | -269 | -1542 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.20 | 2.26 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -48653 | 2319 | -210 | 1107 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1B | -48658 | 2319 | -210 | 1108 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1C | -48653 | 2319 | -211 | 1107 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1D | -48658 | 2319 | -211 | 1108 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -48651 | 2328 | -210 | 1107 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1J | -48661 | 2328 | -210 | 1108 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1K | -48651 | 2328 | -212 | 1107 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1L | -48661 | 2328 | -212 | 1108 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.11 | 2.39 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -52017 | 1901 | 506 | 1317 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1B | -52020 | 1901 | 506 | 1317 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1C | -52017 | 1901 | 505 | 1317 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1D | -52020 | 1901 | 505 | 1317 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -52014 | 1910 | 507 | 1317 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1J | -52022 | 1910 | 507 | 1317 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1K | -52014 | 1910 | 505 | 1317 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1L | -52022 | 1910 | 505 | 1317 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.09 | 2.51 | 0.07 | 0.03 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -48483 | 9336 | -897 | 2403 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1B | -48488 | 9336 | -897 | 2403 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1C | -48483 | 9336 | -898 | 2403 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1D | -48488 | 9336 | -898 | 2403 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -48480 | 9342 | -895 | 2404 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1J | -48491 | 9342 | -895 | 2402 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1K | -48480 | 9342 | -900 | 2404 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1L | -48491 | 9342 | -900 | 2402 | -- | -- | -- | -2.39 | 0.21 | 1.00 | 0.46 | 2.45 | 0.38 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -62585 | 8332 | -71 | 3328 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1B | -62588 | 8332 | -71 | 3329 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1C | -62585 | 8332 | -72 | 3328 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1D | -62588 | 8332 | -72 | 3329 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -62584 | 8339 | -69 | 3327 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1J | -62590 | 8339 | -69 | 3329 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1K | -62584 | 8339 | -74 | 3327 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1L | -62590 | 8339 | -74 | 3329 | -- | -- | -- | -3.09 | 0.27 | 1.00 | 0.41 | 2.98 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -69248 | 7809 | 1538 | 3098 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1B | -69250 | 7809 | 1538 | 3098 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1C | -69248 | 7809 | 1536 | 3098 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1D | -69250 | 7809 | 1536 | 3098 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -69247 | 7817 | 1539 | 3098 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1J | -69251 | 7817 | 1539 | 3099 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1K | -69247 | 7817 | 1535 | 3098 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1L | -69251 | 7817 | 1535 | 3099 | -- | -- | -- | -3.42 | 0.30 | 1.00 | 0.39 | 3.22 | 0.24 | 0.06 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -60225 | 3121 | -377 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1B | -60230 | 3121 | -377 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1C | -60225 | 3121 | -378 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1D | -60230 | 3121 | -378 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -60222 | 3123 | -376 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1J | -60233 | 3123 | -376 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1K | -60222 | 3123 | -379 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1L | -60233 | 3123 | -379 | 1076 | -- | -- | -- | -3.90 | 0.23 | 1.00 | 0.20 | 3.93 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -63753 | 1328 | 270 | 1033 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1B | -63760 | 1328 | 270 | 1034 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1C | -63753 | 1328 | 269 | 1033 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1D | -63760 | 1328 | 269 | 1034 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -63748 | 1333 | 270 | 1033 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1J | -63766 | 1333 | 270 | 1034 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1K | -63748 | 1333 | 269 | 1033 | -- | -- | -- | -3.98 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1L | -63766 | 1333 | 269 | 1034 | -- | -- | -- | -3.99 | 0.23 | 1.00 | 0.08 | 3.99 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -67029 | 1008 | 1368 | 1545 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1B | -67039 | 1008 | 1368 | 1545 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1C | -67029 | 1008 | 1368 | 1545 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1D | -67039 | 1008 | 1368 | 1545 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -67022 | 1013 | 1369 | 1545 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1J | -67046 | 1013 | 1369 | 1546 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1K | -67022 | 1013 | 1368 | 1545 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1L | -67046 | 1013 | 1368 | 1546 | -- | -- | -- | -4.05 | 0.24 | 1.00 | 0.06 | 4.04 | 0.03 | 0.04 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -20918 | 664 | 150 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1B | -20920 | 664 | 150 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1C | -20918 | 664 | 149 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1D | -20920 | 664 | 149 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -20917 | 665 | 150 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1J | -20921 | 665 | 150 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1K | -20917 | 665 | 149 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1L | -20921 | 665 | 149 | 0 | -- | -- | -- | -3.19 | 0.19 | 1.00 | 0.10 | 3.40 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -33777 | 1075 | 189 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1B | -33783 | 1075 | 189 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1C | -33777 | 1075 | 188 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1D | -33783 | 1075 | 188 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -33773 | 1076 | 190 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1J | -33786 | 1076 | 190 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1K | -33773 | 1076 | 187 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1L | -33786 | 1076 | 187 | 0 | -- | -- | -- | -5.16 | 0.30 | 1.00 | 0.16 | 4.87 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -41139 | 3822 | -308 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1B | -41142 | 3822 | -308 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1C | -41139 | 3822 | -310 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1D | -41142 | 3822 | -310 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -41138 | 3823 | -307 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1J | -41144 | 3823 | -307 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1K | -41138 | 3823 | -311 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1L | -41144 | 3823 | -311 | 0 | -- | -- | -- | -6.28 | 0.37 | 1.00 | 0.58 | 5.71 | 0.20 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -21044 | 2631 | -96 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1B | -21045 | 2631 | -96 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1C | -21044 | 2631 | -96 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1D | -21045 | 2631 | -96 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -21044 | 2631 | -95 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1J | -21045 | 2631 | -95 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1K | -21044 | 2631 | -96 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1L | -21045 | 2631 | -96 | -22 | -- | -- | -- | -3.16 | 0.19 | 1.00 | 0.40 | 3.37 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -36262 | 5212 | -26 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1B | -36263 | 5212 | -26 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1C | -36262 | 5212 | -26 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1D | -36263 | 5212 | -26 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -36262 | 5213 | -25 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1J | -36263 | 5213 | -25 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1K | -36262 | 5213 | -27 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1L | -36263 | 5213 | -27 | 314 | -- | -- | -- | -2.82 | 0.17 | 1.00 | 0.41 | 3.12 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -21421 | 3808 | -75 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1B | -21422 | 3808 | -75 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1C | -21421 | 3808 | -76 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1D | -21422 | 3808 | -76 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21420 | 3808 | -75 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1J | -21422 | 3808 | -75 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1K | -21420 | 3808 | -76 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1L | -21422 | 3808 | -76 | 1239 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.48 | 3.04 | 0.32 | 0.14 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -99994 | 6709 | -1505 | 16382 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1B | -100001 | 6709 | -1505 | 16375 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1C | -99994 | 6709 | -1514 | 16382 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1D | -100001 | 6709 | -1514 | 16375 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -99989 | 6712 | -1499 | 16388 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1J | -100006 | 6712 | -1499 | 16370 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1K | -99989 | 6712 | -1520 | 16388 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1L | -100006 | 6712 | -1520 | 16370 | -- | -- | -- | -3.24 | 0.28 | 1.00 | 0.22 | 3.09 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -220828 | 17014 | 970 | 3046 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1B | -220845 | 17014 | 970 | 3037 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1C | -220828 | 17014 | 956 | 3046 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1D | -220845 | 17014 | 956 | 3037 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -220817 | 17022 | 980 | 3052 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1J | -220856 | 17022 | 980 | 3030 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1K | -220817 | 17022 | 946 | 3052 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1L | -220856 | 17022 | 946 | 3030 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.27 | 3.29 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -151236 | 15117 | 3287 | -9763 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1B | -151243 | 15117 | 3287 | -9767 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1C | -151236 | 15117 | 3276 | -9763 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1D | -151243 | 15117 | 3276 | -9767 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -151231 | 15123 | 3294 | -9760 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1J | -151248 | 15123 | 3294 | -9769 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1K | -151231 | 15123 | 3269 | -9760 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1L | -151248 | 15123 | 3269 | -9769 | -- | -- | -- | -3.79 | 0.33 | 1.00 | 0.38 | 3.51 | 0.22 | 0.04 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -66327 | 8013 | -2527 | 4790 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1B | -66331 | 8013 | -2527 | 4790 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1C | -66327 | 8013 | -2532 | 4790 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1D | -66331 | 8013 | -2532 | 4790 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -66325 | 8013 | -2524 | 4790 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1J | -66334 | 8013 | -2524 | 4791 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1K | -66325 | 8013 | -2535 | 4790 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1L | -66334 | 8013 | -2535 | 4791 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.51 | 4.15 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -66077 | 3475 | 378 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1B | -66082 | 3475 | 378 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1C | -66077 | 3475 | 377 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1D | -66082 | 3475 | 377 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -66074 | 3475 | 379 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1J | -66085 | 3475 | 379 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1K | -66074 | 3475 | 376 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1L | -66085 | 3475 | 376 | 1890 | -- | -- | -- | -4.27 | 0.25 | 1.00 | 0.22 | 4.20 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -71779 | 7620 | 3354 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1B | -71786 | 7620 | 3354 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1C | -71779 | 7620 | 3348 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1D | -71786 | 7620 | 3348 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -71774 | 7620 | 3358 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1J | -71790 | 7620 | 3358 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1K | -71774 | 7620 | 3344 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1L | -71790 | 7620 | 3344 | -1212 | -- | -- | -- | -4.64 | 0.27 | 1.00 | 0.49 | 4.48 | 0.22 | 0.03 | 0.15 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -29275 | 507 | 513 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1B | -29277 | 507 | 513 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1C | -29275 | 507 | 513 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1D | -29277 | 507 | 513 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -29273 | 507 | 513 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1J | -29279 | 507 | 513 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1K | -29273 | 507 | 512 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1L | -29279 | 507 | 512 | 288 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.03 | 2.15 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -45627 | 3390 | 19 | -1071 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1B | -45634 | 3390 | 19 | -1072 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1C | -45627 | 3390 | 19 | -1071 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1D | -45634 | 3390 | 19 | -1072 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -45623 | 3393 | 19 | -1071 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1J | -45639 | 3393 | 19 | -1072 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1K | -45623 | 3393 | 19 | -1071 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1L | -45639 | 3393 | 19 | -1072 | -- | -- | -- | -3.10 | 0.27 | 1.00 | 0.23 | 2.99 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -49631 | 4812 | -710 | 58 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1B | -49639 | 4812 | -710 | 58 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1C | -49631 | 4812 | -711 | 58 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1D | -49639 | 4812 | -711 | 58 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49626 | 4815 | -710 | 58 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1J | -49644 | 4815 | -710 | 58 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1K | -49626 | 4815 | -711 | 58 | -- | -- | -- | -3.37 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1L | -49644 | 4815 | -711 | 58 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.33 | 3.19 | 0.21 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 408.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15519 | 4585 | 200 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1B | -15519 | 4585 | 200 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1C | -15519 | 4585 | 199 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1D | -15519 | 4585 | 199 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15519 | 4586 | 201 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1J | -15519 | 4586 | 201 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1K | -15519 | 4586 | 198 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1L | -15519 | 4586 | 198 | 122 | -- | -- | -- | -2.25 | 0.20 | 1.00 | 0.67 | 2.35 | 0.57 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17323 | 2846 | 256 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1B | -17323 | 2846 | 256 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1C | -17323 | 2846 | 255 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1D | -17323 | 2846 | 255 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17322 | 2846 | 257 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1J | -17323 | 2846 | 257 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1K | -17322 | 2846 | 254 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1L | -17323 | 2846 | 254 | 58 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.41 | 2.55 | 0.32 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -19609 | 1908 | 291 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1B | -19610 | 1908 | 291 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1C | -19609 | 1908 | 290 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1D | -19610 | 1908 | 290 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -19609 | 1908 | 292 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1J | -19610 | 1908 | 292 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1K | -19609 | 1908 | 289 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1L | -19610 | 1908 | 289 | 115 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.28 | 2.80 | 0.20 | 0.02 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -76791 | 5492 | 645 | -7701 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1B | -76797 | 5492 | 645 | -7703 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1C | -76791 | 5492 | 641 | -7701 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1D | -76797 | 5492 | 641 | -7703 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -76787 | 5494 | 648 | -7700 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1J | -76801 | 5494 | 648 | -7705 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1K | -76787 | 5494 | 638 | -7700 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1L | -76801 | 5494 | 638 | -7705 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.16 | 2.38 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -188475 | 14354 | 1045 | -17465 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1B | -188483 | 14354 | 1045 | -17467 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1C | -188475 | 14354 | 1036 | -17465 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1D | -188483 | 14354 | 1036 | -17467 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -188470 | 14358 | 1051 | -17463 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1J | -188488 | 14358 | 1051 | -17469 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1K | -188470 | 14358 | 1030 | -17463 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1L | -188488 | 14358 | 1030 | -17469 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.21 | 2.74 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -71322 | 6863 | 431 | -7069 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1B | -71325 | 6863 | 431 | -7070 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1C | -71322 | 6863 | 428 | -7069 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1D | -71325 | 6863 | 428 | -7070 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -71320 | 6865 | 434 | -7068 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1J | -71327 | 6865 | 434 | -7071 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1K | -71320 | 6865 | 425 | -7068 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1L | -71327 | 6865 | 425 | -7071 | -- | -- | -- | -3.31 | 0.29 | 1.00 | 0.32 | 3.14 | 0.20 | 0.13 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -32735 | 2516 | 176 | 202 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1B | -32741 | 2516 | 176 | 203 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1C | -32735 | 2516 | 174 | 202 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1D | -32741 | 2516 | 174 | 203 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -32730 | 2517 | 178 | 202 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1J | -32746 | 2517 | 178 | 203 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1K | -32730 | 2517 | 172 | 202 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1L | -32746 | 2517 | 172 | 203 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.21 | 2.72 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -53804 | 2666 | 247 | -27 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1B | -53807 | 2666 | 247 | -25 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1C | -53804 | 2666 | 243 | -27 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1D | -53807 | 2666 | 243 | -25 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -53802 | 2667 | 250 | -28 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1J | -53809 | 2667 | 250 | -24 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1K | -53802 | 2667 | 240 | -28 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1L | -53809 | 2667 | 240 | -24 | -- | -- | -- | -3.07 | 0.27 | 1.00 | 0.15 | 2.97 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -50225 | 1835 | 378 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1B | -50230 | 1835 | 378 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1C | -50225 | 1835 | 373 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1D | -50230 | 1835 | 373 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -50222 | 1836 | 380 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1J | -50233 | 1836 | 380 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1K | -50222 | 1836 | 371 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1L | -50233 | 1836 | 371 | 464 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.13 | 3.39 | 0.08 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -42740 | 4826 | -181 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1B | -42740 | 4826 | -181 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1C | -42740 | 4826 | -182 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1D | -42740 | 4826 | -182 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -42740 | 4826 | -180 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1J | -42740 | 4826 | -180 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1K | -42740 | 4826 | -182 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1L | -42740 | 4826 | -182 | 851 | -- | -- | -- | -2.16 | 0.19 | 1.00 | 0.24 | 2.28 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -109693 | 11974 | -813 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1B | -109694 | 11974 | -813 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1C | -109693 | 11974 | -814 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1D | -109694 | 11974 | -814 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -109692 | 11974 | -812 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1J | -109695 | 11974 | -812 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1K | -109692 | 11974 | -815 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1L | -109695 | 11974 | -815 | 644 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.27 | 2.49 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -64504 | 8894 | 172 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1B | -64505 | 8894 | 172 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1C | -64504 | 8894 | 171 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1D | -64505 | 8894 | 171 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -64503 | 8894 | 173 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1J | -64506 | 8894 | 173 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1K | -64503 | 8894 | 170 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1L | -64506 | 8894 | 170 | -395 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -33426 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1B | -33426 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1C | -33426 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1D | -33426 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -33425 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1J | -33427 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1K | -33425 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1L | -33427 | 6928 | 616 | 274 | -- | -- | -- | -2.78 | 0.24 | 1.00 | 0.58 | 2.74 | 0.42 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -48557 | 8466 | -83 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1B | -48558 | 8466 | -83 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1C | -48557 | 8466 | -84 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1D | -48558 | 8466 | -84 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -48556 | 8466 | -83 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1J | -48559 | 8466 | -83 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1K | -48556 | 8466 | -84 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1L | -48559 | 8466 | -84 | -989 | -- | -- | -- | -4.08 | 0.35 | 1.00 | 0.71 | 3.72 | 0.38 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -43509 | 5286 | -1426 | -177 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1B | -43509 | 5286 | -1426 | -176 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1C | -43509 | 5286 | -1426 | -177 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1D | -43509 | 5286 | -1426 | -176 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -43508 | 5286 | -1426 | -177 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1J | -43510 | 5286 | -1426 | -176 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1K | -43508 | 5286 | -1426 | -177 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1L | -43510 | 5286 | -1426 | -176 | -- | -- | -- | -3.69 | 0.32 | 1.00 | 0.45 | 3.43 | 0.26 | 0.01 | 0.12 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 408.00 cm

| Posizione | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -29581 | 3514 | 793 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1B | -29584 | 3514 | 793 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1C | -29581 | 3514 | 793 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1D | -29584 | 3514 | 793 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -29580 | 3515 | 794 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1J | -29586 | 3515 | 794 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1K | -29580 | 3515 | 793 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1L | -29586 | 3515 | 793 | -17 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.25 | 2.22 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -49425 | 6404 | 416 | -2512 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1B | -49431 | 6404 | 416 | -2513 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1C | -49425 | 6404 | 416 | -2512 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1D | -49431 | 6404 | 416 | -2513 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -49420 | 6406 | 416 | -2511 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1J | -49436 | 6406 | 416 | -2513 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1K | -49420 | 6406 | 416 | -2511 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1L | -49436 | 6406 | 416 | -2513 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.33 | 2.58 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -42268 | 5650 | -968 | -168 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.65 | 0.27 | 0.00 | 0.09 | |
| 0 | 1B | -42272 | 5650 | -968 | -168 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.66 | 0.27 | 0.00 | 0.09 | |
| 0 | 1C | -42268 | 5650 | -969 | -168 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.65 | 0.27 | 0.00 | 0.09 | |
| 0 | 1D | -42272 | 5650 | -969 | -168 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.66 | 0.27 | 0.00 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -42265 | 5652 | -968 | -169 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.65 | 0.27 | 0.00 | 0.09 | |
| 0 | 1J | -42275 | 5652 | -968 | -168 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.66 | 0.27 | 0.00 | 0.09 | |
| 0 | 1K | -42265 | 5652 | -969 | -169 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.65 | 0.27 | 0.00 | 0.09 | |
| 0 | 1L | -42275 | 5652 | -969 | -168 | -- | -- | -- | -2.66 | 0.23 | 1.00 | 0.36 | 2.66 | 0.27 | 0.00 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12911 | 2246 | -295 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1B | -12911 | 2246 | -295 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1C | -12911 | 2246 | -296 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1D | -12911 | 2246 | -296 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12910 | 2247 | -295 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1J | -12912 | 2247 | -295 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1K | -12910 | 2247 | -296 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1L | -12912 | 2247 | -296 | -41 | -- | -- | -- | -2.58 | 0.22 | 1.00 | 0.45 | 2.60 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -59288 | 6807 | 168 | -1155 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1B | -59294 | 6807 | 168 | -1155 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1C | -59288 | 6807 | 165 | -1155 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1D | -59294 | 6807 | 165 | -1155 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -59284 | 6810 | 170 | -1154 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1J | -59298 | 6810 | 170 | -1155 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1K | -59284 | 6810 | 163 | -1154 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1L | -59298 | 6810 | 163 | -1155 | -- | -- | -- | -3.50 | 0.30 | 1.00 | 0.40 | 3.28 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27438 | 2078 | 238 | 0 | -- | -- | -- | -4.27 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1B | -27452 | 2078 | 238 | 0 | -- | -- | -- | -4.28 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1C | -27438 | 2078 | 232 | 0 | -- | -- | -- | -4.27 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1D | -27452 | 2078 | 232 | 0 | -- | -- | -- | -4.28 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27428 | 2081 | 242 | 0 | -- | -- | -- | -4.27 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1J | -27462 | 2081 | 242 | 0 | -- | -- | -- | -4.28 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1K | -27428 | 2081 | 227 | 0 | -- | -- | -- | -4.27 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1L | -27462 | 2081 | 227 | 0 | -- | -- | -- | -4.28 | 0.37 | 1.00 | 0.32 | 3.87 | 0.17 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -30837 | 4132 | -1546 | -240 | -- | -- | -- | -2.43 | 0.14 | 1.00 | 0.32 | 2.82 | 0.23 | -- | -- | |
| l | 1B | -30844 | 4132 | -1546 | -241 | -- | -- | -- | -2.43 | 0.14 | 1.00 | 0.32 | 2.82 | 0.23 | -- | -- | |
| l | 1C | -30837 | 4132 | -1546 | -240 | -- | -- | -- | -2.43 | 0.14 | 1.00 | 0.32 | 2.82 | 0.23 | -- | -- | |
| l | 1D | -30844 | 4132 | -1546 | -241 | -- | -- | -- | -2.43 | 0.14 | 1.00 | 0.32 | 2.82 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -30832 | 4134 | -1545 | -240 | -- | -- | -- | -2.42 | 0.14 | 1.00 | 0.33 | 2.82 | 0.23 | -- | -- | |
| l | 1J | -30849 | 4134 | -1545 | -241 | -- | -- | -- | -2.43 | 0.14 | 1.00 | 0.33 | 2.82 | 0.23 | -- | -- | |
| l | 1K | -30832 | 4134 | -1547 | -240 | -- | -- | -- | -2.42 | 0.14 | 1.00 | 0.33 | 2.82 | 0.23 | -- | -- | |
| l | 1L | -30849 | 4134 | -1547 | -241 | -- | -- | -- | -2.43 | 0.14 | 1.00 | 0.33 | 2.82 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -53196 | 2628 | 272 | 2557 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1B | -53205 | 2628 | 272 | 2556 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1C | -53196 | 2628 | 271 | 2557 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1D | -53205 | 2628 | 271 | 2556 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -53190 | 2630 | 273 | 2557 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1J | -53211 | 2630 | 273 | 2556 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1K | -53190 | 2630 | 270 | 2557 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1L | -53211 | 2630 | 270 | 2556 | -- | -- | -- | -3.44 | 0.20 | 1.00 | 0.17 | 3.58 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -58999 | 2869 | 1273 | 2399 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1B | -59013 | 2869 | 1273 | 2401 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1C | -58999 | 2869 | 1271 | 2399 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1D | -59013 | 2869 | 1271 | 2401 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -58989 | 2872 | 1276 | 2398 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1J | -59024 | 2872 | 1276 | 2403 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1K | -58989 | 2872 | 1268 | 2398 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1L | -59024 | 2872 | 1268 | 2403 | -- | -- | -- | -3.81 | 0.22 | 1.00 | 0.19 | 3.86 | 0.10 | 0.06 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -67724 | 4994 | -1564 | -88 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1B | -67730 | 4994 | -1564 | -90 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1C | -67724 | 4994 | -1566 | -88 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1D | -67730 | 4994 | -1566 | -90 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -67719 | 4996 | -1563 | -86 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1J | -67735 | 4996 | -1563 | -92 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1K | -67719 | 4996 | -1568 | -86 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1L | -67735 | 4996 | -1568 | -92 | -- | -- | -- | -2.46 | 0.21 | 1.00 | 0.18 | 2.51 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -84619 | 3061 | 156 | -13100 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1B | -84629 | 3061 | 156 | -13108 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1C | -84619 | 3061 | 155 | -13100 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1D | -84629 | 3061 | 155 | -13108 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -84612 | 3065 | 157 | -13095 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1J | -84636 | 3065 | 157 | -13113 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1K | -84612 | 3065 | 154 | -13095 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1L | -84636 | 3065 | 154 | -13113 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.11 | 2.97 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -89865 | 4738 | 2339 | -13288 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1B | -89872 | 4738 | 2339 | -13290 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1C | -89865 | 4738 | 2334 | -13288 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1D | -89872 | 4738 | 2334 | -13290 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -89859 | 4743 | 2342 | -13287 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1J | -89877 | 4743 | 2342 | -13291 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1K | -89859 | 4743 | 2330 | -13287 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1L | -89877 | 4743 | 2330 | -13291 | -- | -- | -- | -3.27 | 0.28 | 1.00 | 0.17 | 3.11 | 0.11 | 0.13 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -3918 | 105 | 23 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1B | -3918 | 105 | 23 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1C | -3918 | 105 | 23 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1D | -3918 | 105 | 23 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3918 | 106 | 24 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1J | -3919 | 106 | 24 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1K | -3918 | 106 | 23 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1L | -3919 | 106 | 23 | 0 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.06 | 2.20 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -16361 | 451 | 39 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1B | -16364 | 451 | 39 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1C | -16361 | 451 | 37 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1D | -16364 | 451 | 37 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -16360 | 452 | 41 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1J | -16366 | 452 | 41 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1K | -16360 | 452 | 36 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1L | -16366 | 452 | 36 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.06 | 2.27 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -9438 | 775 | 12 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1B | -9439 | 775 | 12 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1C | -9438 | 775 | 12 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1D | -9439 | 775 | 12 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -9437 | 776 | 13 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1J | -9440 | 776 | 13 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1K | -9437 | 776 | 11 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1L | -9440 | 776 | 11 | 0 | -- | -- | -- | -2.47 | 0.21 | 1.00 | 0.20 | 2.51 | 0.16 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -7379 | 1275 | 8 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.35 | -- | -- | |
| l | 1B | -7381 | 1275 | 8 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.34 | -- | -- | |
| l | 1C | -7379 | 1275 | 3 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.35 | -- | -- | |
| l | 1D | -7381 | 1275 | 3 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -7377 | 1275 | 11 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.35 | -- | -- | |
| l | 1J | -7383 | 1275 | 11 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.34 | -- | -- | |
| l | 1K | -7377 | 1275 | 1 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.35 | -- | -- | |
| l | 1L | -7383 | 1275 | 1 | 0 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.45 | 2.63 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -30266 | 6311 | -58 | 0 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1B | -30293 | 6311 | -58 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1C | -30266 | 6311 | -69 | 0 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1D | -30293 | 6311 | -69 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -30248 | 6317 | -51 | 0 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1J | -30311 | 6317 | -51 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1K | -30248 | 6317 | -77 | 0 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1L | -30311 | 6317 | -77 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.56 | 2.68 | 0.42 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -17860 | 3260 | 116 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.04 | 0.38 | 0.00 | 0.02 | |
| 0 | 1B | -17867 | 3260 | 116 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.05 | 0.38 | 0.00 | 0.02 | |
| 0 | 1C | -17860 | 3260 | 110 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.04 | 0.38 | 0.00 | 0.02 | |
| 0 | 1D | -17867 | 3260 | 110 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.05 | 0.38 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -17855 | 3271 | 120 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.04 | 0.38 | 0.00 | 0.02 | |
| 0 | 1J | -17872 | 3271 | 120 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.05 | 0.38 | 0.00 | 0.02 | |
| 0 | 1K | -17855 | 3271 | 106 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.04 | 0.38 | 0.00 | 0.02 | |
| 0 | 1L | -17872 | 3271 | 106 | 0 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.58 | 3.05 | 0.38 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -49201 | 8975 | -2542 | 1003 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1B | -49218 | 8975 | -2542 | 1004 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1C | -49201 | 8975 | -2547 | 1003 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1D | -49218 | 8975 | -2547 | 1004 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -49189 | 8993 | -2538 | 1003 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1J | -49229 | 8993 | -2538 | 1004 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1K | -49189 | 8993 | -2551 | 1003 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1L | -49229 | 8993 | -2551 | 1004 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.49 | 2.69 | 0.37 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -51915 | 9973 | 556 | -134 | -- | -- | -- | -2.82 | 0.24 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1B | -51932 | 9973 | 556 | -133 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1C | -51915 | 9973 | 551 | -134 | -- | -- | -- | -2.82 | 0.24 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1D | -51932 | 9973 | 551 | -133 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -51904 | 10003 | 560 | -135 | -- | -- | -- | -2.82 | 0.24 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1J | -51943 | 10003 | 560 | -132 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1K | -51904 | 10003 | 547 | -135 | -- | -- | -- | -2.82 | 0.24 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1L | -51943 | 10003 | 547 | -132 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.54 | 2.77 | 0.39 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -54172 | 11909 | 4213 | -1886 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1B | -54185 | 11909 | 4213 | -1883 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1C | -54172 | 11909 | 4207 | -1886 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1D | -54185 | 11909 | 4207 | -1883 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54163 | 11956 | 4217 | -1888 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1J | -54195 | 11956 | 4217 | -1881 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1K | -54163 | 11956 | 4203 | -1888 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1L | -54195 | 11956 | 4203 | -1881 | -- | -- | -- | -2.90 | 0.25 | 1.00 | 0.64 | 2.83 | 0.45 | 0.04 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -101188 | 4231 | -961 | -5649 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.11 | 2.64 | 0.08 | -- | -- | |
| l | 1B | -101255 | 4231 | -961 | -5653 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.11 | 2.64 | 0.08 | -- | -- | |
| l | 1C | -101188 | 4231 | -991 | -5649 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.11 | 2.64 | 0.08 | -- | -- | |
| l | 1D | -101255 | 4231 | -991 | -5653 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.11 | 2.64 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -101141 | 4247 | -941 | -5647 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.11 | 2.63 | 0.08 | -- | -- | |
| l | 1J | -101301 | 4247 | -941 | -5655 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.11 | 2.64 | 0.08 | -- | -- | |
| l | 1K | -101141 | 4247 | -1011 | -5647 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.11 | 2.63 | 0.08 | -- | -- | |
| l | 1L | -101301 | 4247 | -1011 | -5655 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.11 | 2.64 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -119757 | 4711 | -262 | 10483 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1B | -119902 | 4711 | -262 | 10554 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1C | -119757 | 4711 | -332 | 10483 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1D | -119902 | 4711 | -332 | 10554 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -119655 | 4751 | -212 | 10433 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1J | -120003 | 4751 | -212 | 10603 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1K | -119655 | 4751 | -381 | 10433 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1L | -120003 | 4751 | -381 | 10603 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.12 | 3.00 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -130097 | 2066 | 1942 | 8017 | -- | -- | -- | -3.39 | 0.29 | 1.00 | 0.05 | 3.20 | 0.03 | 0.04 | 0.06 | |
| 0 | 1B | -130308 | 2066 | 1942 | 8085 | -- | -- | -- | -3.39 | 0.29 | 1.00 | 0.05 | 3.20 | 0.03 | 0.04 | 0.06 | |
| 0 | 1C | -130097 | 2066 | 1713 | 8017 | -- | -- | -- | -3.39 | 0.29 | 1.00 | 0.05 | 3.20 | 0.03 | 0.04 | 0.05 | |
| 0 | 1D | -130308 | 2066 | 1713 | 8085 | -- | -- | -- | -3.39 | 0.29 | 1.00 | 0.05 | 3.20 | 0.03 | 0.04 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -129950 | 2127 | 2102 | 7970 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.06 | 3.20 | 0.03 | 0.04 | 0.06 | |
| 0 | 1J | -130454 | 2127 | 2102 | 8132 | -- | -- | -- | -3.40 | 0.30 | 1.00 | 0.06 | 3.21 | 0.03 | 0.04 | 0.06 | |
| 0 | 1K | -129950 | 2127 | 1554 | 7970 | -- | -- | -- | -3.38 | 0.29 | 1.00 | 0.06 | 3.20 | 0.03 | 0.04 | 0.04 | |
| 0 | 1L | -130454 | 2127 | 1554 | 8132 | -- | -- | -- | -3.40 | 0.30 | 1.00 | 0.06 | 3.21 | 0.03 | 0.04 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -65366 | 15976 | 3121 | -4340 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1B | -65371 | 15976 | 3121 | -4342 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1C | -65366 | 15976 | 3115 | -4340 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1D | -65371 | 15976 | 3115 | -4342 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -65362 | 15981 | 3124 | -4339 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1J | -65375 | 15981 | 3124 | -4343 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1K | -65362 | 15981 | 3111 | -4339 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1L | -65375 | 15981 | 3111 | -4343 | -- | -- | -- | -2.02 | 0.12 | 1.00 | 0.49 | 2.51 | 0.39 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -243193 | 12660 | -7405 | 3069 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1B | -243208 | 12660 | -7405 | 3066 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1C | -243193 | 12660 | -7411 | 3069 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1D | -243208 | 12660 | -7411 | 3066 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -243182 | 12666 | -7401 | 3071 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1J | -243218 | 12666 | -7401 | 3064 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1K | -243182 | 12666 | -7415 | 3071 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1L | -243218 | 12666 | -7415 | 3064 | -- | -- | -- | -2.80 | 0.16 | 1.00 | 0.15 | 3.10 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -117856 | 5661 | -11266 | 6543 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1B | -117862 | 5661 | -11266 | 6545 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1C | -117856 | 5661 | -11274 | 6543 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1D | -117862 | 5661 | -11274 | 6545 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -117852 | 5663 | -11261 | 6542 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1J | -117866 | 5663 | -11261 | 6547 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1K | -117852 | 5663 | -11279 | 6542 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1L | -117866 | 5663 | -11279 | 6547 | -- | -- | -- | -3.43 | 0.20 | 1.00 | 0.16 | 3.57 | 0.09 | 0.04 | 0.25 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -19586 | 620 | -1496 | 0 | -- | -- | -- | -2.31 | 0.14 | 1.00 | 0.07 | 2.73 | 0.05 | -- | -- | |
| l | 1B | -19616 | 620 | -1496 | 0 | -- | -- | -- | -2.31 | 0.14 | 1.00 | 0.07 | 2.73 | 0.05 | -- | -- | |
| l | 1C | -19586 | 620 | -1511 | 0 | -- | -- | -- | -2.31 | 0.14 | 1.00 | 0.07 | 2.73 | 0.05 | -- | -- | |
| l | 1D | -19616 | 620 | -1511 | 0 | -- | -- | -- | -2.31 | 0.14 | 1.00 | 0.07 | 2.73 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -19566 | 633 | -1485 | 0 | -- | -- | -- | -2.31 | 0.14 | 1.00 | 0.07 | 2.73 | 0.05 | -- | -- | |
| l | 1J | -19636 | 633 | -1485 | 0 | -- | -- | -- | -2.32 | 0.14 | 1.00 | 0.07 | 2.74 | 0.05 | -- | -- | |
| l | 1K | -19566 | 633 | -1521 | 0 | -- | -- | -- | -2.31 | 0.14 | 1.00 | 0.07 | 2.73 | 0.05 | -- | -- | |
| l | 1L | -19636 | 633 | -1521 | 0 | -- | -- | -- | -2.32 | 0.14 | 1.00 | 0.07 | 2.74 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -25792 | 3617 | -701 | 0 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.47 | 3.51 | 0.27 | -- | -- | |
| ½ | 1B | -25887 | 3617 | -701 | 0 | -- | -- | -- | -3.36 | 0.20 | 1.00 | 0.47 | 3.52 | 0.27 | -- | -- | |
| ½ | 1C | -25792 | 3617 | -712 | 0 | -- | -- | -- | -3.35 | 0.20 | 1.00 | 0.47 | 3.51 | 0.27 | -- | -- | |
| ½ | 1D | -25887 | 3617 | -712 | 0 | -- | -- | -- | -3.36 | 0.20 | 1.00 | 0.47 | 3.52 | 0.27 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -25726 | 3623 | -694 | 0 | -- | -- | -- | -3.34 | 0.20 | 1.00 | 0.47 | 3.51 | 0.27 | -- | -- | |
| ½ | 1J | -25953 | 3623 | -694 | 0 | -- | -- | -- | -3.37 | 0.20 | 1.00 | 0.47 | 3.53 | 0.27 | -- | -- | |
| ½ | 1K | -25726 | 3623 | -719 | 0 | -- | -- | -- | -3.34 | 0.20 | 1.00 | 0.47 | 3.51 | 0.27 | -- | -- | |
| ½ | 1L | -25953 | 3623 | -719 | 0 | -- | -- | -- | -3.37 | 0.20 | 1.00 | 0.47 | 3.53 | 0.27 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -37919 | 7433 | 140 | 0 | -- | -- | -- | -4.93 | 0.29 | 1.00 | 0.97 | 4.70 | 0.41 | 0.00 | 0.01 | |
| 0 | 1B | -37953 | 7433 | 140 | 0 | -- | -- | -- | -4.93 | 0.29 | 1.00 | 0.97 | 4.70 | 0.41 | 0.00 | 0.01 | |
| 0 | 1C | -37919 | 7433 | 100 | 0 | -- | -- | -- | -4.93 | 0.29 | 1.00 | 0.97 | 4.70 | 0.41 | 0.00 | 0.01 | |
| 0 | 1D | -37953 | 7433 | 100 | 0 | -- | -- | -- | -4.93 | 0.29 | 1.00 | 0.97 | 4.70 | 0.41 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -37895 | 7462 | 168 | 0 | -- | -- | -- | -4.92 | 0.29 | 1.00 | 0.97 | 4.69 | 0.41 | 0.00 | 0.01 | |
| 0 | 1J | -37977 | 7462 | 168 | 0 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.97 | 4.70 | 0.41 | 0.00 | 0.01 | |
| 0 | 1K | -37895 | 7462 | 73 | 0 | -- | -- | -- | -4.92 | 0.29 | 1.00 | 0.97 | 4.69 | 0.41 | 0.00 | 0.01 | |
| 0 | 1L | -37977 | 7462 | 73 | 0 | -- | -- | -- | -4.94 | 0.29 | 1.00 | 0.97 | 4.70 | 0.41 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12697 | 1059 | -75 | 148 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.23 | 3.07 | 0.15 | -- | -- | |
| l | 1B | -12702 | 1059 | -75 | 148 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.23 | 3.07 | 0.15 | -- | -- | |
| l | 1C | -12697 | 1059 | -81 | 148 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.23 | 3.07 | 0.15 | -- | -- | |
| l | 1D | -12702 | 1059 | -81 | 148 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.23 | 3.07 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -12694 | 1075 | -70 | 148 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.23 | 3.07 | 0.15 | -- | -- | |
| l | 1J | -12705 | 1075 | -70 | 147 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.23 | 3.08 | 0.15 | -- | -- | |
| l | 1K | -12694 | 1075 | -86 | 148 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.23 | 3.07 | 0.15 | -- | -- | |
| l | 1L | -12705 | 1075 | -86 | 147 | -- | -- | -- | -2.77 | 0.16 | 1.00 | 0.23 | 3.08 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -40411 | 5004 | -312 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.48 | 0.24 | -- | -- | |
| ½ | 1B | -40434 | 5004 | -312 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.48 | 0.24 | -- | -- | |
| ½ | 1C | -40411 | 5004 | -331 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.48 | 0.24 | -- | -- | |
| ½ | 1D | -40434 | 5004 | -331 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.48 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -40396 | 5033 | -298 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.47 | 0.24 | -- | -- | |
| ½ | 1J | -40449 | 5033 | -298 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.48 | 0.24 | -- | -- | |
| ½ | 1K | -40396 | 5033 | -344 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.47 | 0.24 | -- | -- | |
| ½ | 1L | -40449 | 5033 | -344 | 0 | -- | -- | -- | -3.30 | 0.19 | 1.00 | 0.41 | 3.48 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -23633 | 944 | 189 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.15 | 3.90 | 0.08 | 0.00 | 0.02 | |
| 0 | 1B | -23698 | 944 | 189 | 0 | -- | -- | -- | -3.87 | 0.23 | 1.00 | 0.15 | 3.90 | 0.08 | 0.00 | 0.02 | |
| 0 | 1C | -23633 | 944 | 157 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.15 | 3.90 | 0.08 | 0.00 | 0.02 | |
| 0 | 1D | -23698 | 944 | 157 | 0 | -- | -- | -- | -3.87 | 0.23 | 1.00 | 0.15 | 3.90 | 0.08 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23588 | 948 | 212 | 0 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.15 | 3.89 | 0.08 | 0.00 | 0.03 | |
| 0 | 1J | -23744 | 948 | 212 | 0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.15 | 3.91 | 0.08 | 0.00 | 0.03 | |
| 0 | 1K | -23588 | 948 | 134 | 0 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.15 | 3.89 | 0.08 | 0.00 | 0.02 | |
| 0 | 1L | -23744 | 948 | 134 | 0 | -- | -- | -- | -3.88 | 0.23 | 1.00 | 0.15 | 3.91 | 0.08 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 120 Descrizione: Maschio murario n. 120 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -11473 | 6440 | 165 | -2417 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1B | -11476 | 6440 | 165 | -2418 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1C | -11473 | 6440 | 163 | -2417 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1D | -11476 | 6440 | 163 | -2418 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11471 | 6444 | 166 | -2417 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1J | -11478 | 6444 | 166 | -2419 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1K | -11471 | 6444 | 162 | -2417 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1L | -11478 | 6444 | 162 | -2419 | -- | -- | -- | -0.86 | 0.07 | 1.00 | 0.48 | 1.30 | 0.74 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -69158 | 10901 | 96 | -13607 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1B | -69183 | 10901 | 96 | -13615 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1C | -69158 | 10901 | 89 | -13607 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1D | -69183 | 10901 | 89 | -13615 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -69141 | 10908 | 100 | -13602 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1J | -69200 | 10908 | 100 | -13620 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1K | -69141 | 10908 | 85 | -13602 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1L | -69200 | 10908 | 85 | -13620 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.33 | 2.23 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -36756 | 3415 | -125 | 317 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1B | -36764 | 3415 | -125 | 318 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1C | -36756 | 3415 | -129 | 317 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1D | -36764 | 3415 | -129 | 318 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -36750 | 3418 | -122 | 317 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1J | -36770 | 3418 | -122 | 318 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1K | -36750 | 3418 | -132 | 317 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1L | -36770 | 3418 | -132 | 318 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.29 | 2.97 | 0.19 | 0.02 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 121 Descrizione: Maschio murario n. 121 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -9482 | 2025 | 1486 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1B | -9487 | 2025 | 1486 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1C | -9482 | 2025 | 1480 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1D | -9487 | 2025 | 1480 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -9479 | 2030 | 1490 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1J | -9490 | 2030 | 1490 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1K | -9479 | 2030 | 1476 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1L | -9490 | 2030 | 1476 | 917 | -- | -- | -- | -0.41 | 0.04 | 1.00 | 0.09 | 0.97 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -64010 | 13839 | -6502 | -3081 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1B | -64034 | 13839 | -6502 | -3085 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1C | -64010 | 13839 | -6519 | -3081 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1D | -64034 | 13839 | -6519 | -3085 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -63994 | 13855 | -6490 | -3079 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1J | -64050 | 13855 | -6490 | -3087 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1K | -63994 | 13855 | -6531 | -3079 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1L | -64050 | 13855 | -6531 | -3087 | -- | -- | -- | -1.05 | 0.09 | 1.00 | 0.23 | 1.44 | 0.31 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -49282 | 7346 | -5573 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.36 | |
| 0 | 1B | -49293 | 7346 | -5573 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.36 | |
| 0 | 1C | -49282 | 7346 | -5593 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.36 | |
| 0 | 1D | -49293 | 7346 | -5593 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.36 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49274 | 7356 | -5559 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.35 | |
| 0 | 1J | -49301 | 7356 | -5559 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.35 | |
| 0 | 1K | -49274 | 7356 | -5607 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.36 | |
| 0 | 1L | -49301 | 7356 | -5607 | 453 | -- | -- | -- | -2.01 | 0.17 | 1.00 | 0.30 | 2.17 | 0.28 | 0.01 | 0.36 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 122 Descrizione: Maschio murario n. 122 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -13402 | 3755 | 555 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1B | -13404 | 3755 | 555 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1C | -13402 | 3755 | 553 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1D | -13404 | 3755 | 553 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -13400 | 3756 | 556 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1J | -13405 | 3756 | 556 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1K | -13400 | 3756 | 552 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1L | -13405 | 3756 | 552 | 0 | -- | -- | -- | -1.44 | 0.08 | 1.00 | 0.40 | 2.08 | 0.39 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -63908 | 9268 | -124 | -4055 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1B | -63932 | 9268 | -124 | -4053 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1C | -63908 | 9268 | -127 | -4055 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1D | -63932 | 9268 | -127 | -4053 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -63891 | 9272 | -121 | -4057 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1J | -63949 | 9272 | -121 | -4052 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1K | -63891 | 9272 | -129 | -4057 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1L | -63949 | 9272 | -129 | -4052 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.38 | 2.98 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -32825 | 7599 | 314 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1B | -32829 | 7599 | 314 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1C | -32825 | 7599 | 312 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1D | -32829 | 7599 | 312 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -32822 | 7603 | 315 | 0 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1J | -32832 | 7603 | 315 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1K | -32822 | 7603 | 311 | 0 | -- | -- | -- | -3.85 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1L | -32832 | 7603 | 311 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.89 | 3.89 | 0.46 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 124 Descrizione: Maschio murario n. 124 verso portico
altezza calcolata: 408.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -39836 | 10904 | -1268 | -2860 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1B | -39837 | 10904 | -1268 | -2861 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1C | -39836 | 10904 | -1269 | -2860 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1D | -39837 | 10904 | -1269 | -2861 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -39836 | 10906 | -1267 | -2860 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1J | -39837 | 10906 | -1267 | -2862 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1K | -39836 | 10906 | -1270 | -2860 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1L | -39837 | 10906 | -1270 | -2862 | -- | -- | -- | -2.96 | 0.17 | 1.00 | 0.81 | 3.22 | 0.50 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -103716 | 6822 | -5187 | -5042 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1B | -103725 | 6822 | -5187 | -5044 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1C | -103716 | 6822 | -5194 | -5042 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1D | -103725 | 6822 | -5194 | -5044 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -103710 | 6827 | -5182 | -5040 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1J | -103731 | 6827 | -5182 | -5045 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1K | -103710 | 6827 | -5199 | -5040 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1L | -103731 | 6827 | -5199 | -5045 | -- | -- | -- | -3.45 | 0.20 | 1.00 | 0.23 | 3.59 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -45719 | 3133 | -153 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1B | -45721 | 3133 | -153 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1C | -45719 | 3133 | -154 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1D | -45721 | 3133 | -154 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -45718 | 3134 | -153 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1J | -45722 | 3134 | -153 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1K | -45718 | 3134 | -155 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1L | -45722 | 3134 | -155 | 0 | -- | -- | -- | -4.20 | 0.25 | 1.00 | 0.29 | 4.15 | 0.14 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 125 Descrizione: Maschio murario n. 125
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -8580 | 3742 | 220 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.59 | 1.68 | 0.70 | -- | -- | |
| l | 1B | -8585 | 3742 | 220 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.59 | 1.68 | 0.70 | -- | -- | |
| l | 1C | -8580 | 3742 | 218 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.59 | 1.68 | 0.70 | -- | -- | |
| l | 1D | -8585 | 3742 | 218 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.59 | 1.68 | 0.70 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -8577 | 3744 | 222 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.59 | 1.68 | 0.71 | -- | -- | |
| l | 1J | -8589 | 3744 | 222 | 0 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.59 | 1.68 | 0.70 | -- | -- | |
| l | 1K | -8577 | 3744 | 217 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.59 | 1.68 | 0.71 | -- | -- | |
| l | 1L | -8589 | 3744 | 217 | 0 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.59 | 1.68 | 0.70 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -26933 | 4126 | 240 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1B | -26942 | 4126 | 240 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1C | -26933 | 4126 | 238 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1D | -26942 | 4126 | 238 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -26927 | 4130 | 241 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1J | -26949 | 4130 | 241 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1K | -26927 | 4130 | 237 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1L | -26949 | 4130 | 237 | 0 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.34 | 2.34 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -17515 | 1248 | 210 | 0 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.21 | 2.85 | 0.15 | 0.00 | 0.04 | |
| 0 | 1B | -17521 | 1248 | 210 | 0 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.21 | 2.85 | 0.15 | 0.00 | 0.04 | |
| 0 | 1C | -17515 | 1248 | 208 | 0 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.21 | 2.85 | 0.15 | 0.00 | 0.04 | |
| 0 | 1D | -17521 | 1248 | 208 | 0 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.21 | 2.85 | 0.15 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -17510 | 1250 | 211 | 0 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.21 | 2.84 | 0.15 | 0.00 | 0.04 | |
| 0 | 1J | -17525 | 1250 | 211 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.21 | 2.85 | 0.15 | 0.00 | 0.04 | |
| 0 | 1K | -17510 | 1250 | 207 | 0 | -- | -- | -- | -2.91 | 0.25 | 1.00 | 0.21 | 2.84 | 0.15 | 0.00 | 0.04 | |
| 0 | 1L | -17525 | 1250 | 207 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.21 | 2.85 | 0.15 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -21492 | 5595 | 196 | -2370 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1B | -21497 | 5595 | 196 | -2372 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1C | -21492 | 5595 | 193 | -2370 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1D | -21497 | 5595 | 193 | -2372 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -21488 | 5598 | 199 | -2368 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1J | -21501 | 5598 | 199 | -2373 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1K | -21488 | 5598 | 191 | -2368 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1L | -21501 | 5598 | 191 | -2373 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.43 | 1.91 | 0.45 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -148118 | 23056 | -315 | -4117 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1B | -148166 | 23056 | -315 | -4115 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1C | -148118 | 23056 | -330 | -4117 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1D | -148166 | 23056 | -330 | -4115 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -148084 | 23066 | -305 | -4119 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1J | -148200 | 23066 | -305 | -4113 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1K | -148084 | 23066 | -341 | -4119 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1L | -148200 | 23066 | -341 | -4113 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.41 | 2.62 | 0.31 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -40510 | 660 | 100 | -1463 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1B | -40525 | 660 | 100 | -1463 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1C | -40510 | 660 | 96 | -1463 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1D | -40525 | 660 | 96 | -1463 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40500 | 662 | 103 | -1462 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1J | -40535 | 662 | 103 | -1463 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1K | -40500 | 662 | 93 | -1462 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1L | -40535 | 662 | 93 | -1463 | -- | -- | -- | -3.52 | 0.31 | 1.00 | 0.06 | 3.30 | 0.03 | 0.09 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -22939 | 4016 | 1455 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.30 | 0.33 | -- | -- | |
| l | 1B | -22951 | 4016 | 1455 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.31 | 0.33 | -- | -- | |
| l | 1C | -22939 | 4016 | 1451 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.30 | 0.33 | -- | -- | |
| l | 1D | -22951 | 4016 | 1451 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.31 | 0.33 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -22930 | 4018 | 1459 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.30 | 0.33 | -- | -- | |
| l | 1J | -22960 | 4018 | 1459 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.31 | 0.33 | -- | -- | |
| l | 1K | -22930 | 4018 | 1448 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.30 | 0.33 | -- | -- | |
| l | 1L | -22960 | 4018 | 1448 | 0 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.38 | 2.31 | 0.33 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -74519 | 8021 | 1123 | 572 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1B | -74553 | 8021 | 1123 | 571 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1C | -74519 | 8021 | 1114 | 572 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1D | -74553 | 8021 | 1114 | 571 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -74495 | 8034 | 1130 | 573 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1J | -74576 | 8034 | 1130 | 570 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1K | -74495 | 8034 | 1108 | 573 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1L | -74576 | 8034 | 1108 | 570 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.25 | 2.38 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -34198 | 3800 | 250 | -1100 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.27 | 2.49 | 0.22 | 0.05 | 0.02 | |
| 0 | 1B | -34213 | 3800 | 250 | -1100 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.27 | 2.49 | 0.22 | 0.05 | 0.02 | |
| 0 | 1C | -34198 | 3800 | 248 | -1100 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.27 | 2.49 | 0.22 | 0.05 | 0.02 | |
| 0 | 1D | -34213 | 3800 | 248 | -1100 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.27 | 2.49 | 0.22 | 0.05 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -34188 | 3806 | 252 | -1100 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.27 | 2.48 | 0.22 | 0.05 | 0.02 | |
| 0 | 1J | -34223 | 3806 | 252 | -1099 | -- | -- | -- | -2.44 | 0.21 | 1.00 | 0.27 | 2.49 | 0.22 | 0.05 | 0.02 | |
| 0 | 1K | -34188 | 3806 | 247 | -1100 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.27 | 2.48 | 0.22 | 0.05 | 0.02 | |
| 0 | 1L | -34223 | 3806 | 247 | -1099 | -- | -- | -- | -2.44 | 0.21 | 1.00 | 0.27 | 2.49 | 0.22 | 0.05 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 128 Descrizione: Maschio murario n. 128 veso portico
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -27600 | 7729 | 1358 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1B | -27604 | 7729 | 1358 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1C | -27600 | 7729 | 1357 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1D | -27604 | 7729 | 1357 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -27597 | 7735 | 1359 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1J | -27607 | 7735 | 1359 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1K | -27597 | 7735 | 1356 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1L | -27607 | 7735 | 1356 | -273 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.65 | 2.40 | 0.54 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -60942 | 16373 | -197 | 87 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.62 | 2.40 | 0.52 | -- | -- | |
| ½ | 1B | -60955 | 16373 | -197 | 87 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.62 | 2.40 | 0.52 | -- | -- | |
| ½ | 1C | -60942 | 16373 | -205 | 87 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.62 | 2.40 | 0.52 | -- | -- | |
| ½ | 1D | -60955 | 16373 | -205 | 87 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.62 | 2.40 | 0.52 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -60934 | 16384 | -191 | 87 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.63 | 2.40 | 0.52 | -- | -- | |
| ½ | 1J | -60963 | 16384 | -191 | 88 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.63 | 2.41 | 0.52 | -- | -- | |
| ½ | 1K | -60934 | 16384 | -211 | 87 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.63 | 2.40 | 0.52 | -- | -- | |
| ½ | 1L | -60963 | 16384 | -211 | 88 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.63 | 2.41 | 0.52 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -34832 | 10359 | -326 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1B | -34836 | 10359 | -326 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1C | -34832 | 10359 | -329 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1D | -34836 | 10359 | -329 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -34829 | 10364 | -324 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1J | -34839 | 10364 | -324 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1K | -34829 | 10364 | -331 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1L | -34839 | 10364 | -331 | 163 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.77 | 2.61 | 0.59 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -30319 | 888 | -172 | 1458 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.07 | 2.47 | 0.06 | -- | -- | |
| l | 1B | -30363 | 888 | -172 | 1456 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.07 | 2.47 | 0.06 | -- | -- | |
| l | 1C | -30319 | 888 | -180 | 1458 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.07 | 2.47 | 0.06 | -- | -- | |
| l | 1D | -30363 | 888 | -180 | 1456 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.07 | 2.47 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -30288 | 905 | -166 | 1460 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.07 | 2.47 | 0.06 | -- | -- | |
| l | 1J | -30394 | 905 | -166 | 1454 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.07 | 2.48 | 0.06 | -- | -- | |
| l | 1K | -30288 | 905 | -186 | 1460 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.07 | 2.47 | 0.06 | -- | -- | |
| l | 1L | -30394 | 905 | -186 | 1454 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.07 | 2.48 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -43637 | 2981 | -49 | -1690 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1B | -43693 | 2981 | -49 | -1686 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1C | -43637 | 2981 | -65 | -1690 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1D | -43693 | 2981 | -65 | -1686 | -- | -- | -- | -3.48 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -43598 | 3032 | -38 | -1693 | -- | -- | -- | -3.47 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1J | -43732 | 3032 | -38 | -1684 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1K | -43598 | 3032 | -76 | -1693 | -- | -- | -- | -3.47 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1L | -43732 | 3032 | -76 | -1684 | -- | -- | -- | -3.49 | 0.30 | 1.00 | 0.24 | 3.27 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -45639 | 1443 | -407 | -684 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.12 | 3.39 | 0.07 | 0.03 | 0.03 | |
| 0 | 1B | -45747 | 1443 | -407 | -670 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.12 | 3.39 | 0.07 | 0.03 | 0.03 | |
| 0 | 1C | -45639 | 1443 | -424 | -684 | -- | -- | -- | -3.64 | 0.32 | 1.00 | 0.12 | 3.39 | 0.07 | 0.03 | 0.03 | |
| 0 | 1D | -45747 | 1443 | -424 | -670 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.12 | 3.39 | 0.07 | 0.03 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -45564 | 1458 | -395 | -694 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.12 | 3.38 | 0.07 | 0.03 | 0.03 | |
| 0 | 1J | -45822 | 1458 | -395 | -660 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.12 | 3.40 | 0.07 | 0.03 | 0.03 | |
| 0 | 1K | -45564 | 1458 | -436 | -694 | -- | -- | -- | -3.63 | 0.32 | 1.00 | 0.12 | 3.38 | 0.07 | 0.03 | 0.03 | |
| 0 | 1L | -45822 | 1458 | -436 | -660 | -- | -- | -- | -3.65 | 0.32 | 1.00 | 0.12 | 3.40 | 0.07 | 0.03 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -95269 | 4093 | -4204 | -5422 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1B | -95291 | 4093 | -4204 | -5435 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1C | -95269 | 4093 | -4215 | -5422 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1D | -95291 | 4093 | -4215 | -5435 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -95254 | 4112 | -4196 | -5413 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1J | -95306 | 4112 | -4196 | -5444 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1K | -95254 | 4112 | -4223 | -5413 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1L | -95306 | 4112 | -4223 | -5444 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.10 | 2.40 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -136673 | 9692 | -5624 | 11674 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1B | -136713 | 9692 | -5624 | 11702 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1C | -136673 | 9692 | -5652 | 11674 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1D | -136713 | 9692 | -5652 | 11702 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -136644 | 9710 | -5605 | 11655 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1J | -136742 | 9710 | -5605 | 11721 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1K | -136644 | 9710 | -5671 | 11655 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1L | -136742 | 9710 | -5671 | 11721 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.19 | 2.62 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -117593 | 11787 | -7501 | 22357 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.81 | 0.20 | 0.11 | 0.21 | |
| 0 | 1B | -117624 | 11787 | -7501 | 22350 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.82 | 0.20 | 0.11 | 0.21 | |
| 0 | 1C | -117593 | 11787 | -7558 | 22357 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.81 | 0.20 | 0.11 | 0.21 | |
| 0 | 1D | -117624 | 11787 | -7558 | 22350 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.82 | 0.20 | 0.11 | 0.21 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -117572 | 11810 | -7461 | 22361 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.81 | 0.21 | 0.11 | 0.21 | |
| 0 | 1J | -117645 | 11810 | -7461 | 22345 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.82 | 0.20 | 0.11 | 0.21 | |
| 0 | 1K | -117572 | 11810 | -7598 | 22361 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.81 | 0.21 | 0.11 | 0.21 | |
| 0 | 1L | -117645 | 11810 | -7598 | 22345 | -- | -- | -- | -2.87 | 0.25 | 1.00 | 0.29 | 2.82 | 0.20 | 0.11 | 0.21 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 132 Descrizione: Maschio murario n. 132
altezza calcolata: 408.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -21026 | 3054 | -48 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.26 | 2.00 | 0.26 | -- | -- | |
| l | 1B | -21043 | 3054 | -48 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.26 | 2.00 | 0.26 | -- | -- | |
| l | 1C | -21026 | 3054 | -51 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.26 | 2.00 | 0.26 | -- | -- | |
| l | 1D | -21043 | 3054 | -51 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.26 | 2.00 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -21014 | 3057 | -46 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| l | 1J | -21055 | 3057 | -46 | 0 | -- | -- | -- | -1.78 | 0.16 | 1.00 | 0.26 | 2.00 | 0.26 | -- | -- | |
| l | 1K | -21014 | 3057 | -52 | 0 | -- | -- | -- | -1.78 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| l | 1L | -21055 | 3057 | -52 | 0 | -- | -- | -- | -1.78 | 0.16 | 1.00 | 0.26 | 2.00 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -37319 | 6269 | 517 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.40 | 2.47 | 0.33 | -- | -- | |
| ½ | 1B | -37326 | 6269 | 517 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.40 | 2.47 | 0.33 | -- | -- | |
| ½ | 1C | -37319 | 6269 | 514 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.40 | 2.47 | 0.33 | -- | -- | |
| ½ | 1D | -37326 | 6269 | 514 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.40 | 2.47 | 0.33 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -37315 | 6277 | 520 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.41 | 2.47 | 0.33 | -- | -- | |
| ½ | 1J | -37331 | 6277 | 520 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.41 | 2.47 | 0.33 | -- | -- | |
| ½ | 1K | -37315 | 6277 | 511 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.41 | 2.47 | 0.33 | -- | -- | |
| ½ | 1L | -37331 | 6277 | 511 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.41 | 2.47 | 0.33 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26485 | 2790 | -265 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.90 | 0.22 | 0.00 | 0.03 | |
| 0 | 1B | -26495 | 2790 | -265 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.91 | 0.22 | 0.00 | 0.03 | |
| 0 | 1C | -26485 | 2790 | -266 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.90 | 0.22 | 0.00 | 0.03 | |
| 0 | 1D | -26495 | 2790 | -266 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.91 | 0.22 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26478 | 2790 | -264 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.90 | 0.22 | 0.00 | 0.03 | |
| 0 | 1J | -26501 | 2790 | -264 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.91 | 0.22 | 0.00 | 0.03 | |
| 0 | 1K | -26478 | 2790 | -267 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.90 | 0.22 | 0.00 | 0.03 | |
| 0 | 1L | -26501 | 2790 | -267 | 0 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.32 | 2.91 | 0.22 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 133 Descrizione: Maschio murario n. 133
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -24572 | 4675 | -180 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1B | -24577 | 4675 | -180 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1C | -24572 | 4675 | -185 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1D | -24577 | 4675 | -185 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -24570 | 4683 | -177 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1J | -24580 | 4683 | -177 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1K | -24570 | 4683 | -188 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1L | -24580 | 4683 | -188 | 0 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.50 | 2.61 | 0.38 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -26874 | 5795 | 83 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.61 | 2.80 | 0.44 | -- | -- | |
| ½ | 1B | -26877 | 5795 | 83 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.61 | 2.80 | 0.44 | -- | -- | |
| ½ | 1C | -26874 | 5795 | 79 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.61 | 2.80 | 0.44 | -- | -- | |
| ½ | 1D | -26877 | 5795 | 79 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.61 | 2.80 | 0.44 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -26873 | 5808 | 86 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.62 | 2.80 | 0.44 | -- | -- | |
| ½ | 1J | -26878 | 5808 | 86 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.62 | 2.80 | 0.44 | -- | -- | |
| ½ | 1K | -26873 | 5808 | 76 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.62 | 2.80 | 0.44 | -- | -- | |
| ½ | 1L | -26878 | 5808 | 76 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.62 | 2.80 | 0.44 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29391 | 6041 | 395 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1B | -29395 | 6041 | 395 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1C | -29391 | 6041 | 389 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1D | -29395 | 6041 | 389 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29389 | 6060 | 398 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1J | -29398 | 6060 | 398 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1K | -29389 | 6060 | 385 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1L | -29398 | 6060 | 385 | 0 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.64 | 3.00 | 0.43 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 134 Descrizione: Maschio murario n. 134
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -31116 | 906 | -1827 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1B | -31133 | 906 | -1827 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1C | -31116 | 906 | -1832 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1D | -31133 | 906 | -1832 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -31105 | 916 | -1824 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1J | -31144 | 916 | -1824 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1K | -31105 | 916 | -1835 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1L | -31144 | 916 | -1835 | 0 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.08 | 2.80 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -30049 | 1914 | 493 | 0 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1B | -30069 | 1914 | 493 | 0 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1C | -30049 | 1914 | 491 | 0 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1D | -30069 | 1914 | 491 | 0 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -30034 | 1931 | 494 | 0 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1J | -30084 | 1931 | 494 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1K | -30034 | 1931 | 490 | 0 | -- | -- | -- | -2.82 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1L | -30084 | 1931 | 490 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.18 | 2.78 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -28038 | 272 | 2992 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.03 | 2.69 | 0.02 | 0.00 | 0.36 | |
| 0 | 1B | -28065 | 272 | 2992 | 0 | -- | -- | -- | -2.70 | 0.24 | 1.00 | 0.03 | 2.69 | 0.02 | 0.00 | 0.36 | |
| 0 | 1C | -28038 | 272 | 2984 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.03 | 2.69 | 0.02 | 0.00 | 0.36 | |
| 0 | 1D | -28065 | 272 | 2984 | 0 | -- | -- | -- | -2.70 | 0.24 | 1.00 | 0.03 | 2.69 | 0.02 | 0.00 | 0.36 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -28019 | 300 | 2997 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.03 | 2.68 | 0.02 | 0.00 | 0.36 | |
| 0 | 1J | -28085 | 300 | 2997 | 0 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.03 | 2.69 | 0.02 | 0.00 | 0.36 | |
| 0 | 1K | -28019 | 300 | 2979 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.03 | 2.68 | 0.02 | 0.00 | 0.36 | |
| 0 | 1L | -28085 | 300 | 2979 | 0 | -- | -- | -- | -2.71 | 0.24 | 1.00 | 0.03 | 2.69 | 0.02 | 0.00 | 0.36 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -65053 | 4338 | -4462 | 7429 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1B | -65099 | 4338 | -4462 | 7434 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1C | -65053 | 4338 | -4502 | 7429 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1D | -65099 | 4338 | -4502 | 7434 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -65022 | 4344 | -4434 | 7425 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1J | -65130 | 4344 | -4434 | 7438 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1K | -65022 | 4344 | -4530 | 7425 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1L | -65130 | 4344 | -4530 | 7438 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.17 | 2.61 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -69255 | 8768 | -2069 | 2170 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.35 | 2.76 | 0.26 | -- | -- | |
| ½ | 1B | -69284 | 8768 | -2069 | 2181 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.35 | 2.76 | 0.26 | -- | -- | |
| ½ | 1C | -69255 | 8768 | -2157 | 2170 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.35 | 2.76 | 0.26 | -- | -- | |
| ½ | 1D | -69284 | 8768 | -2157 | 2181 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.35 | 2.76 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -69235 | 8803 | -2007 | 2163 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.36 | 2.76 | 0.26 | -- | -- | |
| ½ | 1J | -69304 | 8803 | -2007 | 2188 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.36 | 2.76 | 0.26 | -- | -- | |
| ½ | 1K | -69235 | 8803 | -2219 | 2163 | -- | -- | -- | -2.80 | 0.24 | 1.00 | 0.36 | 2.76 | 0.26 | -- | -- | |
| ½ | 1L | -69304 | 8803 | -2219 | 2188 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.36 | 2.76 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -64854 | 15453 | 496 | -1569 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.02 | |
| 0 | 1B | -64934 | 15453 | 496 | -1554 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.02 | |
| 0 | 1C | -64854 | 15453 | 276 | -1569 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.01 | |
| 0 | 1D | -64934 | 15453 | 276 | -1554 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -64798 | 15491 | 649 | -1579 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.03 | |
| 0 | 1J | -64989 | 15491 | 649 | -1544 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.03 | |
| 0 | 1K | -64798 | 15491 | 123 | -1579 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.01 | |
| 0 | 1L | -64989 | 15491 | 123 | -1544 | -- | -- | -- | -2.63 | 0.23 | 1.00 | 0.63 | 2.63 | 0.48 | 0.02 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **7** Tabella: **Tabella muri interni**
Descrizione: **Muri 1p-2p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 408.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -20061 | 358 | -1024 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1B | -20064 | 358 | -1024 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1C | -20061 | 358 | -1029 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1D | -20064 | 358 | -1029 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -20059 | 359 | -1020 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1J | -20066 | 359 | -1020 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1K | -20059 | 359 | -1033 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1L | -20066 | 359 | -1033 | -29 | -- | -- | -- | -3.11 | 0.27 | 1.00 | 0.06 | 2.99 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -49880 | 1749 | -345 | -68 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1B | -49885 | 1749 | -345 | -69 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1C | -49880 | 1749 | -350 | -68 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1D | -49885 | 1749 | -350 | -69 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -49877 | 1756 | -341 | -67 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1J | -49888 | 1756 | -341 | -70 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1K | -49877 | 1756 | -354 | -67 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1L | -49888 | 1756 | -354 | -70 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.11 | 3.01 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26706 | 1266 | 478 | 54 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1B | -26708 | 1266 | 478 | 53 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1C | -26706 | 1266 | 476 | 54 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1D | -26708 | 1266 | 476 | 53 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26706 | 1271 | 480 | 54 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1J | -26708 | 1271 | 480 | 53 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1K | -26706 | 1271 | 474 | 54 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1L | -26708 | 1271 | 474 | 53 | -- | -- | -- | -3.36 | 0.29 | 1.00 | 0.16 | 3.18 | 0.10 | 0.01 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ cm | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -1971 | 3352 | -14 | 0 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1B | -1975 | 3352 | -14 | 0 | -- | -- | -- | -0.58 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1C | -1971 | 3352 | -15 | 0 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1D | -1975 | 3352 | -15 | 0 | -- | -- | -- | -0.58 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -1968 | 3353 | -14 | 0 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1J | -1978 | 3353 | -14 | 0 | -- | -- | -- | -0.58 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1K | -1968 | 3353 | -16 | 0 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1L | -1978 | 3353 | -16 | 0 | -- | -- | -- | -0.58 | 0.03 | 1.00 | 0.98 | 1.43 | 1.37 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -23261 | 1333 | -212 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1B | -23266 | 1333 | -212 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1C | -23261 | 1333 | -213 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1D | -23266 | 1333 | -213 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -23258 | 1334 | -212 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1J | -23269 | 1334 | -212 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1K | -23258 | 1334 | -213 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1L | -23269 | 1334 | -213 | 0 | -- | -- | -- | -1.70 | 0.10 | 1.00 | 0.10 | 2.27 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -12767 | 647 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1B | -12769 | 647 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1C | -12767 | 647 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1D | -12769 | 647 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -12765 | 648 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1J | -12770 | 648 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1K | -12765 | 648 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1L | -12770 | 648 | 15 | 0 | -- | -- | -- | -1.86 | 0.11 | 1.00 | 0.09 | 2.40 | 0.08 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -50133 | 6597 | -6884 | -1926 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1B | -50147 | 6597 | -6884 | -1925 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1C | -50133 | 6597 | -6887 | -1926 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1D | -50147 | 6597 | -6887 | -1925 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -50123 | 6606 | -6883 | -1927 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1J | -50157 | 6606 | -6883 | -1925 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1K | -50123 | 6606 | -6889 | -1927 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1L | -50157 | 6606 | -6889 | -1925 | -- | -- | -- | -1.84 | 0.11 | 1.00 | 0.24 | 2.38 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -128225 | 4270 | -4076 | -4891 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1B | -128271 | 4270 | -4076 | -4895 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1C | -128225 | 4270 | -4079 | -4891 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1D | -128271 | 4270 | -4079 | -4895 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -128193 | 4273 | -4074 | -4888 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1J | -128302 | 4273 | -4074 | -4898 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1K | -128193 | 4273 | -4081 | -4888 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1L | -128302 | 4273 | -4081 | -4898 | -- | -- | -- | -2.35 | 0.14 | 1.00 | 0.08 | 2.76 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -73205 | 5170 | 4547 | 410 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1B | -73222 | 5170 | 4547 | 409 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1C | -73205 | 5170 | 4544 | 410 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1D | -73222 | 5170 | 4544 | 409 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -73193 | 5171 | 4550 | 411 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1J | -73233 | 5171 | 4550 | 407 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1K | -73193 | 5171 | 4542 | 411 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1L | -73233 | 5171 | 4542 | 407 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.19 | 3.01 | 0.13 | 0.01 | 0.15 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -31484 | 2649 | -8476 | -159 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.22 | 3.01 | 0.15 | -- | -- | |
| l | 1B | -31490 | 2649 | -8476 | -158 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.22 | 3.01 | 0.15 | -- | -- | |
| l | 1C | -31484 | 2649 | -8480 | -159 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.22 | 3.01 | 0.15 | -- | -- | |
| l | 1D | -31490 | 2649 | -8480 | -158 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.22 | 3.01 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -31479 | 2659 | -8473 | -160 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.23 | 3.01 | 0.15 | -- | -- | |
| l | 1J | -31494 | 2659 | -8473 | -158 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.23 | 3.01 | 0.15 | -- | -- | |
| l | 1K | -31479 | 2659 | -8483 | -160 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.23 | 3.01 | 0.15 | -- | -- | |
| l | 1L | -31494 | 2659 | -8483 | -158 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.23 | 3.01 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -79653 | 2688 | -5434 | -299 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1B | -79668 | 2688 | -5434 | -299 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1C | -79653 | 2688 | -5436 | -299 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1D | -79668 | 2688 | -5436 | -299 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -79642 | 2693 | -5433 | -299 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1J | -79679 | 2693 | -5433 | -300 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1K | -79642 | 2693 | -5437 | -299 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1L | -79679 | 2693 | -5437 | -300 | -- | -- | -- | -3.38 | 0.20 | 1.00 | 0.11 | 3.54 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -43747 | 5108 | 3999 | -509 | -- | -- | -- | -3.72 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1B | -43765 | 5108 | 3999 | -509 | -- | -- | -- | -3.72 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1C | -43747 | 5108 | 3997 | -509 | -- | -- | -- | -3.72 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1D | -43765 | 5108 | 3997 | -509 | -- | -- | -- | -3.72 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -43734 | 5111 | 4000 | -509 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1J | -43778 | 5111 | 4000 | -509 | -- | -- | -- | -3.72 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1K | -43734 | 5111 | 3995 | -509 | -- | -- | -- | -3.71 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1L | -43778 | 5111 | 3995 | -509 | -- | -- | -- | -3.72 | 0.22 | 1.00 | 0.43 | 3.79 | 0.23 | 0.02 | 0.29 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *l* | 1A | -60117 | 9657 | -13336 | 491 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1B | -60140 | 9657 | -13336 | 494 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1C | -60117 | 9657 | -13346 | 491 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1D | -60140 | 9657 | -13346 | 494 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1I | -60100 | 9669 | -13329 | 490 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1J | -60157 | 9669 | -13329 | 496 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1K | -60100 | 9669 | -13354 | 490 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1L | -60157 | 9669 | -13354 | 496 | -- | -- | -- | -2.12 | 0.12 | 1.00 | 0.34 | 2.59 | 0.26 | -- | -- | |
| *l* | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| *l* | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -151396 | 3790 | -10401 | -70 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1B | -151464 | 3790 | -10401 | -71 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1C | -151396 | 3790 | -10406 | -70 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1D | -151464 | 3790 | -10406 | -71 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -151348 | 3795 | -10397 | -70 | -- | -- | -- | -2.66 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1J | -151512 | 3795 | -10397 | -71 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1K | -151348 | 3795 | -10410 | -70 | -- | -- | -- | -2.66 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1L | -151512 | 3795 | -10410 | -71 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.07 | 3.00 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -85170 | 4491 | 5838 | -3005 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1B | -85194 | 4491 | 5838 | -3006 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1C | -85170 | 4491 | 5833 | -3005 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1D | -85194 | 4491 | 5833 | -3006 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -85153 | 4493 | 5841 | -3005 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1J | -85211 | 4493 | 5841 | -3006 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1K | -85153 | 4493 | 5829 | -3005 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1L | -85211 | 4493 | 5829 | -3006 | -- | -- | -- | -3.00 | 0.18 | 1.00 | 0.16 | 3.25 | 0.10 | 0.03 | 0.17 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -35288 | 7026 | -9881 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.87 | 0.35 | -- | -- | |
| l | 1B | -35302 | 7026 | -9881 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.87 | 0.35 | -- | -- | |
| l | 1C | -35288 | 7026 | -9893 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.87 | 0.35 | -- | -- | |
| l | 1D | -35302 | 7026 | -9893 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.87 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -35279 | 7034 | -9872 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.86 | 0.35 | -- | -- | |
| l | 1J | -35312 | 7034 | -9872 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.87 | 0.35 | -- | -- | |
| l | 1K | -35279 | 7034 | -9902 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.86 | 0.35 | -- | -- | |
| l | 1L | -35312 | 7034 | -9902 | 355 | -- | -- | -- | -2.49 | 0.15 | 1.00 | 0.50 | 2.87 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -89165 | 2127 | -6821 | -89 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.07 | 3.36 | 0.04 | -- | -- | |
| ½ | 1B | -89183 | 2127 | -6821 | -89 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.07 | 3.36 | 0.04 | -- | -- | |
| ½ | 1C | -89165 | 2127 | -6824 | -89 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.07 | 3.36 | 0.04 | -- | -- | |
| ½ | 1D | -89183 | 2127 | -6824 | -89 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.07 | 3.36 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -89151 | 2134 | -6819 | -89 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.08 | 3.36 | 0.04 | -- | -- | |
| ½ | 1J | -89197 | 2134 | -6819 | -88 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.08 | 3.36 | 0.04 | -- | -- | |
| ½ | 1K | -89151 | 2134 | -6825 | -89 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.08 | 3.36 | 0.04 | -- | -- | |
| ½ | 1L | -89197 | 2134 | -6825 | -88 | -- | -- | -- | -3.14 | 0.18 | 1.00 | 0.08 | 3.36 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -49305 | 4373 | 4285 | -1401 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1B | -49320 | 4373 | 4285 | -1403 | -- | -- | -- | -3.48 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1C | -49305 | 4373 | 4281 | -1401 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1D | -49320 | 4373 | 4281 | -1403 | -- | -- | -- | -3.48 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49294 | 4376 | 4288 | -1400 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1J | -49330 | 4376 | 4288 | -1405 | -- | -- | -- | -3.48 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1K | -49294 | 4376 | 4278 | -1400 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1L | -49330 | 4376 | 4278 | -1405 | -- | -- | -- | -3.48 | 0.20 | 1.00 | 0.31 | 3.61 | 0.17 | 0.04 | 0.27 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -54926 | 7965 | -10996 | 1241 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1B | -54961 | 7965 | -10996 | 1237 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1C | -54926 | 7965 | -11057 | 1241 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1D | -54961 | 7965 | -11057 | 1237 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -54901 | 7975 | -10954 | 1243 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1J | -54986 | 7975 | -10954 | 1235 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1K | -54901 | 7975 | -11100 | 1243 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1L | -54986 | 7975 | -11100 | 1235 | -- | -- | -- | -1.91 | 0.11 | 1.00 | 0.28 | 2.43 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -138536 | 5540 | -8686 | 2556 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1B | -138622 | 5540 | -8686 | 2565 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1C | -138536 | 5540 | -8737 | 2556 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1D | -138622 | 5540 | -8737 | 2565 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -138476 | 5544 | -8650 | 2550 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1J | -138682 | 5544 | -8650 | 2571 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1K | -138476 | 5544 | -8773 | 2550 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1L | -138682 | 5544 | -8773 | 2571 | -- | -- | -- | -2.41 | 0.14 | 1.00 | 0.10 | 2.81 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -78840 | 4444 | 5159 | -2711 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1B | -78878 | 4444 | 5159 | -2699 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1C | -78840 | 4444 | 5115 | -2711 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1D | -78878 | 4444 | 5115 | -2699 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -78814 | 4447 | 5191 | -2719 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1J | -78904 | 4447 | 5191 | -2691 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1K | -78814 | 4447 | 5083 | -2719 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1L | -78904 | 4447 | 5083 | -2691 | -- | -- | -- | -2.74 | 0.16 | 1.00 | 0.15 | 3.06 | 0.10 | 0.03 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -26438 | 6172 | -5289 | 109 | -- | -- | -- | -1.77 | 0.10 | 1.00 | 0.41 | 2.33 | 0.36 | -- | -- | |
| l | 1B | -26461 | 6172 | -5289 | 109 | -- | -- | -- | -1.78 | 0.10 | 1.00 | 0.41 | 2.33 | 0.36 | -- | -- | |
| l | 1C | -26438 | 6172 | -5342 | 109 | -- | -- | -- | -1.77 | 0.10 | 1.00 | 0.41 | 2.33 | 0.36 | -- | -- | |
| l | 1D | -26461 | 6172 | -5342 | 109 | -- | -- | -- | -1.78 | 0.10 | 1.00 | 0.41 | 2.33 | 0.36 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -26422 | 6189 | -5252 | 109 | -- | -- | -- | -1.77 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | -- | -- | |
| l | 1J | -26477 | 6189 | -5252 | 109 | -- | -- | -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | -- | -- | |
| l | 1K | -26422 | 6189 | -5379 | 109 | -- | -- | -- | -1.77 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | -- | -- | |
| l | 1L | -26477 | 6189 | -5379 | 109 | -- | -- | -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -70893 | 4315 | -3076 | 824 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.14 | 2.78 | 0.10 | -- | -- | |
| ½ | 1B | -70923 | 4315 | -3076 | 826 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.14 | 2.78 | 0.10 | -- | -- | |
| ½ | 1C | -70893 | 4315 | -3141 | 824 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.14 | 2.78 | 0.10 | -- | -- | |
| ½ | 1D | -70923 | 4315 | -3141 | 826 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.14 | 2.78 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -70872 | 4325 | -3031 | 822 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.15 | 2.78 | 0.10 | -- | -- | |
| ½ | 1J | -70944 | 4325 | -3031 | 827 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.15 | 2.79 | 0.10 | -- | -- | |
| ½ | 1K | -70872 | 4325 | -3186 | 822 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.15 | 2.78 | 0.10 | -- | -- | |
| ½ | 1L | -70944 | 4325 | -3186 | 827 | -- | -- | -- | -2.38 | 0.14 | 1.00 | 0.15 | 2.79 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -40403 | 3373 | 2989 | -1827 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.03 | 0.15 | 0.06 | 0.21 | |
| 0 | 1B | -40435 | 3373 | 2989 | -1833 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.03 | 0.15 | 0.06 | 0.21 | |
| 0 | 1C | -40403 | 3373 | 2933 | -1827 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.03 | 0.15 | 0.06 | 0.21 | |
| 0 | 1D | -40435 | 3373 | 2933 | -1833 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.03 | 0.15 | 0.06 | 0.21 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40381 | 3379 | 3027 | -1823 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.03 | 0.15 | 0.06 | 0.22 | |
| 0 | 1J | -40457 | 3379 | 3027 | -1836 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.04 | 0.15 | 0.06 | 0.22 | |
| 0 | 1K | -40381 | 3379 | 2895 | -1823 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.03 | 0.15 | 0.06 | 0.21 | |
| 0 | 1L | -40457 | 3379 | 2895 | -1836 | -- | -- | -- | -2.71 | 0.16 | 1.00 | 0.23 | 3.04 | 0.15 | 0.06 | 0.21 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -32188 | 13768 | -293 | -494 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.84 | 0.52 | -- | -- | |
| l | 1B | -32213 | 13768 | -293 | -502 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.85 | 0.52 | -- | -- | |
| l | 1C | -32188 | 13768 | -330 | -494 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.84 | 0.52 | -- | -- | |
| l | 1D | -32213 | 13768 | -330 | -502 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.85 | 0.52 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -32171 | 13796 | -267 | -489 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.84 | 0.52 | -- | -- | |
| l | 1J | -32230 | 13796 | -267 | -508 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.85 | 0.52 | -- | -- | |
| l | 1K | -32171 | 13796 | -356 | -489 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.84 | 0.52 | -- | -- | |
| l | 1L | -32230 | 13796 | -356 | -508 | -- | -- | -- | -1.13 | 0.07 | 1.00 | 0.48 | 1.85 | 0.52 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -95086 | 4173 | -879 | -516 | -- | -- | -- | -1.66 | 0.10 | 1.00 | 0.07 | 2.25 | 0.06 | -- | -- | |
| ½ | 1B | -95154 | 4173 | -879 | -521 | -- | -- | -- | -1.67 | 0.10 | 1.00 | 0.07 | 2.25 | 0.06 | -- | -- | |
| ½ | 1C | -95086 | 4173 | -910 | -516 | -- | -- | -- | -1.66 | 0.10 | 1.00 | 0.07 | 2.25 | 0.06 | -- | -- | |
| ½ | 1D | -95154 | 4173 | -910 | -521 | -- | -- | -- | -1.67 | 0.10 | 1.00 | 0.07 | 2.25 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -95038 | 4190 | -857 | -512 | -- | -- | -- | -1.66 | 0.10 | 1.00 | 0.07 | 2.25 | 0.07 | -- | -- | |
| ½ | 1J | -95202 | 4190 | -857 | -525 | -- | -- | -- | -1.67 | 0.10 | 1.00 | 0.07 | 2.25 | 0.07 | -- | -- | |
| ½ | 1K | -95038 | 4190 | -931 | -512 | -- | -- | -- | -1.66 | 0.10 | 1.00 | 0.07 | 2.25 | 0.07 | -- | -- | |
| ½ | 1L | -95202 | 4190 | -931 | -525 | -- | -- | -- | -1.67 | 0.10 | 1.00 | 0.07 | 2.25 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -57072 | 2702 | -436 | 1158 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1B | -57084 | 2702 | -436 | 1161 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1C | -57072 | 2702 | -449 | 1158 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1D | -57084 | 2702 | -449 | 1161 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -57064 | 2710 | -427 | 1156 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1J | -57092 | 2710 | -427 | 1162 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1K | -57064 | 2710 | -458 | 1156 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1L | -57092 | 2710 | -458 | 1162 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.09 | 2.50 | 0.08 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 390.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6547 | 10357 | -199 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1B | -6551 | 10357 | -199 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1C | -6547 | 10357 | -203 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1D | -6551 | 10357 | -203 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -6545 | 10372 | -196 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1J | -6553 | 10372 | -196 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1K | -6545 | 10372 | -206 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1L | -6553 | 10372 | -206 | 0 | -- | -- | -- | -0.75 | 0.04 | 1.00 | 1.19 | 1.56 | 1.52 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -26021 | 2800 | -99 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1B | -26040 | 2800 | -99 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1C | -26021 | 2800 | -106 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1D | -26040 | 2800 | -106 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -26008 | 2805 | -94 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1J | -26053 | 2805 | -94 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1K | -26008 | 2805 | -111 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1L | -26053 | 2805 | -111 | 0 | -- | -- | -- | -1.49 | 0.09 | 1.00 | 0.16 | 2.12 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -23368 | 5321 | -188 | 0 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.02 | |
| 0 | 1B | -23380 | 5321 | -188 | 0 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.02 | |
| 0 | 1C | -23368 | 5321 | -198 | 0 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.02 | |
| 0 | 1D | -23380 | 5321 | -198 | 0 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23361 | 5326 | -182 | 0 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.02 | |
| 0 | 1J | -23388 | 5326 | -182 | 0 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.02 | |
| 0 | 1K | -23361 | 5326 | -204 | 0 | -- | -- | -- | -2.67 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.03 | |
| 0 | 1L | -23388 | 5326 | -204 | 0 | -- | -- | -- | -2.68 | 0.16 | 1.00 | 0.61 | 3.01 | 0.41 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 10 Descrizione: Maschio murario n. 10 su corso Valdocco
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -11470 | 2549 | -2428 | -418 | -- | -- | -- | -1.78 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1B | -11475 | 2549 | -2428 | -418 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1C | -11470 | 2549 | -2429 | -418 | -- | -- | -- | -1.78 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1D | -11475 | 2549 | -2429 | -418 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11467 | 2553 | -2427 | -418 | -- | -- | -- | -1.78 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1J | -11478 | 2553 | -2427 | -418 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1K | -11467 | 2553 | -2430 | -418 | -- | -- | -- | -1.78 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1L | -11478 | 2553 | -2430 | -418 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.40 | 2.00 | 0.40 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -18813 | 1797 | -1217 | -17 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1B | -18816 | 1797 | -1217 | -16 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1C | -18813 | 1797 | -1219 | -17 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1D | -18816 | 1797 | -1219 | -16 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -18810 | 1802 | -1216 | -17 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1J | -18818 | 1802 | -1216 | -16 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1K | -18810 | 1802 | -1221 | -17 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1L | -18818 | 1802 | -1221 | -16 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.06 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20141 | 3151 | -131 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1B | -20146 | 3151 | -131 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1C | -20141 | 3151 | -133 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1D | -20146 | 3151 | -133 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20137 | 3156 | -131 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1J | -20149 | 3156 | -131 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1K | -20137 | 3156 | -133 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1L | -20149 | 3156 | -133 | 128 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.34 | 2.31 | 0.30 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 11 Descrizione: Maschio murario n. 11 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6911 | 362 | -298 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1B | -6912 | 362 | -298 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1C | -6911 | 362 | -298 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1D | -6912 | 362 | -298 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6910 | 363 | -297 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1J | -6913 | 363 | -297 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1K | -6910 | 363 | -298 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1L | -6913 | 363 | -298 | 0 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.04 | 1.24 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -9817 | 96 | -312 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1B | -9819 | 96 | -312 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1C | -9817 | 96 | -312 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1D | -9819 | 96 | -312 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -9816 | 99 | -311 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1J | -9821 | 99 | -311 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1K | -9816 | 99 | -313 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1L | -9821 | 99 | -313 | 0 | -- | -- | -- | -1.09 | 0.10 | 1.00 | 0.01 | 1.48 | 0.01 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14065 | 183 | 449 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.83 | 0.02 | 0.00 | 0.08 | |
| 0 | 1B | -14070 | 183 | 449 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.83 | 0.02 | 0.00 | 0.08 | |
| 0 | 1C | -14065 | 183 | 448 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.83 | 0.02 | 0.00 | 0.08 | |
| 0 | 1D | -14070 | 183 | 448 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.83 | 0.02 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14061 | 187 | 450 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.83 | 0.02 | 0.00 | 0.08 | |
| 0 | 1J | -14074 | 187 | 450 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.84 | 0.02 | 0.00 | 0.08 | |
| 0 | 1K | -14061 | 187 | 447 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.83 | 0.02 | 0.00 | 0.08 | |
| 0 | 1L | -14074 | 187 | 447 | 0 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.02 | 1.84 | 0.02 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 12 Descrizione: Maschio murario n. 12 su corso Valdocco
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6104 | 360 | -95 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.29 | 0.08 | -- | -- | |
| l | 1B | -6105 | 360 | -95 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.08 | -- | -- | |
| l | 1C | -6104 | 360 | -95 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.29 | 0.08 | -- | -- | |
| l | 1D | -6105 | 360 | -95 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6104 | 360 | -94 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.29 | 0.08 | -- | -- | |
| l | 1J | -6106 | 360 | -94 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.08 | -- | -- | |
| l | 1K | -6104 | 360 | -96 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.29 | 0.08 | -- | -- | |
| l | 1L | -6106 | 360 | -96 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -8918 | 1262 | 65 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1B | -8920 | 1262 | 65 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1C | -8918 | 1262 | 64 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1D | -8920 | 1262 | 64 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -8916 | 1264 | 65 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1J | -8921 | 1264 | 65 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1K | -8916 | 1264 | 63 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1L | -8921 | 1264 | 63 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.18 | 1.59 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11772 | 1751 | 495 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.88 | 0.26 | 0.00 | 0.10 | |
| 0 | 1B | -11776 | 1751 | 495 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.88 | 0.26 | 0.00 | 0.10 | |
| 0 | 1C | -11772 | 1751 | 494 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.88 | 0.26 | 0.00 | 0.10 | |
| 0 | 1D | -11776 | 1751 | 494 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.88 | 0.26 | 0.00 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11770 | 1753 | 496 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.88 | 0.26 | 0.00 | 0.10 | |
| 0 | 1J | -11778 | 1753 | 496 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.89 | 0.26 | 0.00 | 0.10 | |
| 0 | 1K | -11770 | 1753 | 494 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.88 | 0.26 | 0.00 | 0.10 | |
| 0 | 1L | -11778 | 1753 | 494 | 0 | -- | -- | -- | -1.63 | 0.14 | 1.00 | 0.24 | 1.89 | 0.26 | 0.00 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 13 Descrizione: Maschio murario n. 13 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -16631 | 294 | -2140 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1B | -16632 | 294 | -2140 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1C | -16631 | 294 | -2141 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1D | -16632 | 294 | -2141 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16630 | 295 | -2140 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1J | -16633 | 295 | -2140 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1K | -16630 | 295 | -2142 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1L | -16633 | 295 | -2142 | 57 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.02 | 1.58 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -23602 | 412 | -2133 | -343 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1B | -23603 | 412 | -2133 | -343 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1C | -23602 | 412 | -2134 | -343 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1D | -23603 | 412 | -2134 | -343 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -23601 | 414 | -2133 | -343 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1J | -23604 | 414 | -2133 | -343 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1K | -23601 | 414 | -2135 | -343 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1L | -23604 | 414 | -2135 | -343 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.03 | 1.85 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -22271 | 378 | -1795 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1B | -22276 | 378 | -1795 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1C | -22271 | 378 | -1796 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1D | -22276 | 378 | -1796 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -22267 | 379 | -1794 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1J | -22279 | 379 | -1794 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1K | -22267 | 379 | -1797 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1L | -22279 | 379 | -1797 | -0 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.03 | 2.02 | 0.03 | 0.00 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 14 Descrizione: Maschio murario n. 14 su corso valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -21542 | 2695 | -5279 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1B | -21545 | 2695 | -5279 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1C | -21542 | 2695 | -5293 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1D | -21545 | 2695 | -5293 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -21540 | 2696 | -5269 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1J | -21548 | 2696 | -5269 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1K | -21540 | 2696 | -5304 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1L | -21548 | 2696 | -5304 | 1478 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.20 | 1.84 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -25034 | 1074 | -3177 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1B | -25036 | 1074 | -3177 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1C | -25034 | 1074 | -3181 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1D | -25036 | 1074 | -3181 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -25033 | 1077 | -3175 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1J | -25038 | 1077 | -3175 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1K | -25033 | 1077 | -3183 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1L | -25038 | 1077 | -3183 | 347 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27548 | 522 | -1935 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1B | -27550 | 522 | -1935 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1C | -27548 | 522 | -1938 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1D | -27550 | 522 | -1938 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27547 | 525 | -1932 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1J | -27551 | 525 | -1932 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1K | -27547 | 525 | -1940 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1L | -27551 | 525 | -1940 | 275 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.04 | 2.16 | 0.04 | 0.02 | 0.20 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 15 Descrizione: Maschio murario n. 15 su corso Valdocco
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -6970 | 287 | -284 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1B | -6970 | 287 | -284 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1C | -6970 | 287 | -285 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1D | -6970 | 287 | -285 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6969 | 287 | -283 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1J | -6970 | 287 | -283 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1K | -6969 | 287 | -285 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1L | -6970 | 287 | -285 | 132 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.03 | 1.28 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -10377 | 1638 | -151 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1B | -10377 | 1638 | -151 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1C | -10377 | 1638 | -152 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1D | -10377 | 1638 | -152 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -10377 | 1640 | -151 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1J | -10377 | 1640 | -151 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1K | -10377 | 1640 | -152 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1L | -10377 | 1640 | -152 | 137 | -- | -- | -- | -1.23 | 0.11 | 1.00 | 0.19 | 1.58 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14213 | 1880 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1B | -14214 | 1880 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1C | -14213 | 1880 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1D | -14214 | 1880 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14212 | 1882 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1J | -14215 | 1882 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1K | -14212 | 1882 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1L | -14215 | 1882 | 400 | -42 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.22 | 1.92 | 0.23 | 0.01 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 16 Descrizione: Maschio murario n. 16 su Via del Carmine
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -7999 | 427 | -328 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1B | -7999 | 427 | -328 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1C | -7999 | 427 | -329 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1D | -7999 | 427 | -329 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -7998 | 428 | -328 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1J | -7999 | 428 | -328 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1K | -7998 | 428 | -329 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1L | -7999 | 428 | -329 | 235 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.05 | 1.30 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -11941 | 313 | -154 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1B | -11941 | 313 | -154 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1C | -11941 | 313 | -154 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1D | -11941 | 313 | -154 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -11940 | 314 | -153 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1J | -11942 | 314 | -153 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1K | -11940 | 314 | -155 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1L | -11942 | 314 | -155 | 261 | -- | -- | -- | -1.27 | 0.11 | 1.00 | 0.03 | 1.61 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -16213 | 799 | 618 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1B | -16215 | 799 | 618 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1C | -16213 | 799 | 617 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1D | -16215 | 799 | 617 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -16212 | 800 | 619 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1J | -16216 | 800 | 619 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1K | -16212 | 800 | 617 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1L | -16216 | 800 | 617 | -11 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.09 | 1.96 | 0.09 | 0.00 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 17 Descrizione: Maschio murario n. 17 su via del Carmine
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -16387 | 2075 | -1876 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1B | -16387 | 2075 | -1876 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1C | -16387 | 2075 | -1877 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1D | -16387 | 2075 | -1877 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16386 | 2075 | -1875 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1J | -16387 | 2075 | -1875 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1K | -16386 | 2075 | -1877 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1L | -16387 | 2075 | -1877 | -456 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.15 | 1.52 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -22475 | 1689 | -1887 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1B | -22476 | 1689 | -1887 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1C | -22475 | 1689 | -1888 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1D | -22476 | 1689 | -1888 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -22475 | 1691 | -1886 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1J | -22476 | 1691 | -1886 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1K | -22475 | 1691 | -1888 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1L | -22476 | 1691 | -1888 | 105 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.12 | 1.84 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26964 | 1442 | -1940 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1B | -26964 | 1442 | -1940 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1C | -26964 | 1442 | -1942 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1D | -26964 | 1442 | -1942 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26963 | 1443 | -1939 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1J | -26965 | 1443 | -1939 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1K | -26963 | 1443 | -1943 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1L | -26965 | 1443 | -1943 | 347 | -- | -- | -- | -1.89 | 0.16 | 1.00 | 0.10 | 2.08 | 0.10 | 0.02 | 0.20 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 18 Descrizione: Maschio murario n. 18 su via del Carmine
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -16047 | 190 | -1008 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1B | -16048 | 190 | -1008 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1C | -16047 | 190 | -1009 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1D | -16048 | 190 | -1009 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16046 | 190 | -1008 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1J | -16048 | 190 | -1008 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1K | -16046 | 190 | -1009 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1L | -16048 | 190 | -1009 | 0 | -- | -- | -- | -1.11 | 0.10 | 1.00 | 0.01 | 1.49 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -22792 | 863 | -2222 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1B | -22794 | 863 | -2222 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1C | -22792 | 863 | -2223 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1D | -22794 | 863 | -2223 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -22790 | 865 | -2221 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1J | -22795 | 865 | -2221 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1K | -22790 | 865 | -2224 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1L | -22795 | 865 | -2224 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.06 | 1.84 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27515 | 683 | -2801 | 0 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1B | -27517 | 683 | -2801 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1C | -27515 | 683 | -2803 | 0 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1D | -27517 | 683 | -2803 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27514 | 685 | -2799 | 0 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1J | -27518 | 685 | -2799 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1K | -27514 | 685 | -2805 | 0 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1L | -27518 | 685 | -2805 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.05 | 2.09 | 0.05 | 0.00 | 0.28 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 19 Descrizione: Maschio murario n. 19 su Via Del Carmine
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -12345 | 761 | -476 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1B | -12347 | 761 | -476 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1C | -12345 | 761 | -480 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1D | -12347 | 761 | -480 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12343 | 761 | -472 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1J | -12349 | 761 | -472 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1K | -12343 | 761 | -484 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1L | -12349 | 761 | -484 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.06 | 1.39 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -19569 | 1856 | 392 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1B | -19570 | 1856 | 392 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1C | -19569 | 1856 | 389 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1D | -19570 | 1856 | 389 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -19568 | 1856 | 393 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1J | -19571 | 1856 | 393 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1K | -19568 | 1856 | 388 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1L | -19571 | 1856 | 388 | 0 | -- | -- | -- | -1.54 | 0.13 | 1.00 | 0.15 | 1.82 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26384 | 1434 | 189 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1B | -26385 | 1434 | 189 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1C | -26384 | 1434 | 188 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1D | -26385 | 1434 | 188 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26383 | 1436 | 190 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1J | -26387 | 1436 | 190 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1K | -26383 | 1436 | 187 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1L | -26387 | 1436 | 187 | 0 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.11 | 2.22 | 0.10 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 20 Descrizione: Maschio murario n. 20 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14630 | 1440 | 395 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1B | -14630 | 1440 | 395 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1C | -14630 | 1440 | 393 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1D | -14630 | 1440 | 393 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14629 | 1440 | 397 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1J | -14630 | 1440 | 397 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1K | -14629 | 1440 | 391 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1L | -14630 | 1440 | 391 | 446 | -- | -- | -- | -1.32 | 0.12 | 1.00 | 0.13 | 1.65 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -32201 | 2730 | -364 | 68 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.93 | 0.15 | -- | -- | |
| ½ | 1B | -32204 | 2730 | -364 | 68 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.93 | 0.15 | -- | -- | |
| ½ | 1C | -32201 | 2730 | -367 | 68 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.93 | 0.15 | -- | -- | |
| ½ | 1D | -32204 | 2730 | -367 | 68 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.93 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -32199 | 2730 | -362 | 67 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.93 | 0.15 | -- | -- | |
| ½ | 1J | -32207 | 2730 | -362 | 69 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.94 | 0.15 | -- | -- | |
| ½ | 1K | -32199 | 2730 | -369 | 67 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.93 | 0.15 | -- | -- | |
| ½ | 1L | -32207 | 2730 | -369 | 69 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.14 | 1.94 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26376 | 624 | -421 | -99 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1B | -26378 | 624 | -421 | -99 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1C | -26376 | 624 | -423 | -99 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1D | -26378 | 624 | -423 | -99 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26374 | 624 | -419 | -98 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1J | -26380 | 624 | -419 | -99 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1K | -26374 | 624 | -425 | -98 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1L | -26380 | 624 | -425 | -99 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.05 | 2.23 | 0.04 | 0.01 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 21 Descrizione: Maschio murario n. 21 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -4628 | 4233 | 121 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1B | -4632 | 4233 | 121 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1C | -4628 | 4233 | 119 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1D | -4632 | 4233 | 119 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4626 | 4235 | 122 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1J | -4635 | 4235 | 122 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1K | -4626 | 4235 | 117 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1L | -4635 | 4235 | 117 | -0 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.83 | 1.34 | 1.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -23290 | 2886 | 95 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1B | -23294 | 2886 | 95 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1C | -23290 | 2886 | 93 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1D | -23294 | 2886 | 93 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -23287 | 2887 | 96 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1J | -23296 | 2887 | 96 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1K | -23287 | 2887 | 93 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1L | -23296 | 2887 | 93 | -0 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.28 | 2.37 | 0.24 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -12290 | 1312 | -217 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1B | -12292 | 1312 | -217 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1C | -12290 | 1312 | -217 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1D | -12292 | 1312 | -217 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -12289 | 1314 | -217 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1J | -12293 | 1314 | -217 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1K | -12289 | 1314 | -218 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1L | -12293 | 1314 | -218 | -0 | -- | -- | -- | -2.41 | 0.21 | 1.00 | 0.26 | 2.47 | 0.21 | 0.00 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 22 Descrizione: Maschio murario n. 22
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -11288 | 2369 | 26 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1B | -11294 | 2369 | 26 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1C | -11288 | 2369 | 24 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1D | -11294 | 2369 | 24 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11285 | 2372 | 26 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1J | -11298 | 2372 | 26 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1K | -11285 | 2372 | 23 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1L | -11298 | 2372 | 23 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.20 | 1.37 | 0.29 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -68197 | 731 | -90 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1B | -68201 | 731 | -90 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1C | -68197 | 731 | -93 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1D | -68201 | 731 | -93 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -68194 | 732 | -88 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1J | -68203 | 732 | -88 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1K | -68194 | 732 | -95 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1L | -68203 | 732 | -95 | 0 | -- | -- | -- | -2.86 | 0.25 | 1.00 | 0.03 | 2.81 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -38172 | 366 | -112 | 0 | -- | -- | -- | -3.20 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1B | -38173 | 366 | -112 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1C | -38172 | 366 | -114 | 0 | -- | -- | -- | -3.20 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1D | -38173 | 366 | -114 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -38172 | 366 | -110 | 0 | -- | -- | -- | -3.20 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1J | -38174 | 366 | -110 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1K | -38172 | 366 | -116 | 0 | -- | -- | -- | -3.20 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1L | -38174 | 366 | -116 | 0 | -- | -- | -- | -3.21 | 0.28 | 1.00 | 0.03 | 3.06 | 0.02 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 23 Descrizione: Maschio murario n. 23
altezza calcolata: 390.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14259 | 2693 | -216 | 0 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1B | -14266 | 2693 | -216 | 0 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1C | -14259 | 2693 | -223 | 0 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1D | -14266 | 2693 | -223 | 0 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14254 | 2695 | -211 | 0 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1J | -14271 | 2695 | -211 | 0 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1K | -14254 | 2695 | -228 | 0 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1L | -14271 | 2695 | -228 | 0 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.21 | 1.50 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -70636 | 1677 | -62 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1B | -70643 | 1677 | -62 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1C | -70636 | 1677 | -71 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1D | -70643 | 1677 | -71 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -70631 | 1679 | -55 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1J | -70649 | 1679 | -55 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1K | -70631 | 1679 | -78 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1L | -70649 | 1679 | -78 | 0 | -- | -- | -- | -2.79 | 0.24 | 1.00 | 0.07 | 2.75 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -39650 | 838 | 260 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1B | -39661 | 838 | 260 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1C | -39650 | 838 | 253 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1D | -39661 | 838 | 253 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -39641 | 839 | 266 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1J | -39670 | 839 | 266 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1K | -39641 | 839 | 247 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1L | -39670 | 839 | 247 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.07 | 3.01 | 0.04 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -37921 | 1952 | -339 | -2630 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.21 | 0.10 | -- | -- | |
| l | 1B | -37935 | 1952 | -339 | -2618 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.21 | 0.10 | -- | -- | |
| l | 1C | -37921 | 1952 | -354 | -2630 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.21 | 0.10 | -- | -- | |
| l | 1D | -37935 | 1952 | -354 | -2618 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.21 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -37911 | 1956 | -329 | -2638 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1J | -37944 | 1956 | -329 | -2609 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.21 | 0.10 | -- | -- | |
| l | 1K | -37911 | 1956 | -364 | -2638 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1L | -37944 | 1956 | -364 | -2609 | -- | -- | -- | -2.06 | 0.18 | 1.00 | 0.11 | 2.21 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -123150 | 6109 | -2342 | -3273 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1B | -123190 | 6109 | -2342 | -3272 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1C | -123150 | 6109 | -2395 | -3273 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1D | -123190 | 6109 | -2395 | -3272 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -123122 | 6119 | -2304 | -3274 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1J | -123218 | 6119 | -2304 | -3271 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1K | -123122 | 6119 | -2432 | -3274 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1L | -123218 | 6119 | -2432 | -3271 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.13 | 2.67 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -74145 | 7266 | 1064 | 1605 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.05 | |
| 0 | 1B | -74181 | 7266 | 1064 | 1615 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.05 | |
| 0 | 1C | -74145 | 7266 | 991 | 1605 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.05 | |
| 0 | 1D | -74181 | 7266 | 991 | 1615 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -74121 | 7277 | 1115 | 1598 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.06 | |
| 0 | 1J | -74206 | 7277 | 1115 | 1623 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.06 | |
| 0 | 1K | -74121 | 7277 | 941 | 1598 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.05 | |
| 0 | 1L | -74206 | 7277 | 941 | 1623 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.33 | 3.17 | 0.21 | 0.02 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15808 | 12508 | -1248 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | . |
| l | 1B | -15826 | 12508 | -1248 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | . |
| l | 1C | -15808 | 12508 | -1269 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | . |
| l | 1D | -15826 | 12508 | -1269 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | . |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -15795 | 12533 | -1233 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | . |
| l | 1J | -15838 | 12533 | -1233 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | . |
| l | 1K | -15795 | 12533 | -1284 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | |
| l | 1L | -15838 | 12533 | -1284 | 0 | -- | -- | -- | -1.32 | 0.08 | 1.00 | 1.05 | 1.99 | 1.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -63381 | 2149 | -1204 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1B | -63441 | 2149 | -1204 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1C | -63381 | 2149 | -1412 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1D | -63441 | 2149 | -1412 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -63338 | 2158 | -1060 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1J | -63483 | 2158 | -1060 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1K | -63338 | 2158 | -1557 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1L | -63483 | 2158 | -1557 | 0 | -- | -- | -- | -2.65 | 0.16 | 1.00 | 0.09 | 2.99 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -35661 | 1074 | 906 | 0 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.09 | 3.24 | 0.06 | 0.00 | 0.07 | |
| 0 | 1B | -35718 | 1074 | 906 | 0 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.09 | 3.24 | 0.06 | 0.00 | 0.07 | |
| 0 | 1C | -35661 | 1074 | 676 | 0 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.09 | 3.24 | 0.06 | 0.00 | 0.05 | |
| 0 | 1D | -35718 | 1074 | 676 | 0 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.09 | 3.24 | 0.06 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -35622 | 1079 | 1066 | 0 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.09 | 3.23 | 0.06 | 0.00 | 0.08 | |
| 0 | 1J | -35757 | 1079 | 1066 | 0 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.09 | 3.24 | 0.06 | 0.00 | 0.08 | |
| 0 | 1K | -35622 | 1079 | 516 | 0 | -- | -- | -- | -2.98 | 0.18 | 1.00 | 0.09 | 3.23 | 0.06 | 0.00 | 0.04 | |
| 0 | 1L | -35757 | 1079 | 516 | 0 | -- | -- | -- | -2.99 | 0.18 | 1.00 | 0.09 | 3.24 | 0.06 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -52959 | 2834 | -828 | -3520 | -- | -- | -- | -2.01 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1B | -52967 | 2834 | -828 | -3518 | -- | -- | -- | -2.02 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1C | -52959 | 2834 | -863 | -3520 | -- | -- | -- | -2.01 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1D | -52967 | 2834 | -863 | -3518 | -- | -- | -- | -2.02 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -52953 | 2845 | -804 | -3521 | -- | -- | -- | -2.01 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1J | -52972 | 2845 | -804 | -3517 | -- | -- | -- | -2.02 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1K | -52953 | 2845 | -888 | -3521 | -- | -- | -- | -2.01 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1L | -52972 | 2845 | -888 | -3517 | -- | -- | -- | -2.02 | 0.18 | 1.00 | 0.11 | 2.17 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -133107 | 5305 | -138 | 4312 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1B | -133152 | 5305 | -138 | 4313 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1C | -133107 | 5305 | -280 | 4312 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1D | -133152 | 5305 | -280 | 4313 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -133075 | 5325 | -40 | 4311 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1J | -133184 | 5325 | -40 | 4314 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1K | -133075 | 5325 | -379 | 4311 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1L | -133184 | 5325 | -379 | 4314 | -- | -- | -- | -2.43 | 0.21 | 1.00 | 0.10 | 2.48 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -79128 | 2840 | 1816 | 863 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.08 | |
| 0 | 1B | -79154 | 2840 | 1816 | 854 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.08 | |
| 0 | 1C | -79128 | 2840 | 1611 | 863 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.07 | |
| 0 | 1D | -79154 | 2840 | 1611 | 854 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -79109 | 2853 | 1959 | 869 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.09 | |
| 0 | 1J | -79173 | 2853 | 1959 | 848 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.09 | |
| 0 | 1K | -79109 | 2853 | 1468 | 869 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.06 | |
| 0 | 1L | -79173 | 2853 | 1468 | 848 | -- | -- | -- | -2.74 | 0.24 | 1.00 | 0.10 | 2.71 | 0.07 | 0.01 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6378 | 1159 | -197 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1B | -6383 | 1159 | -197 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1C | -6378 | 1159 | -203 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1D | -6383 | 1159 | -203 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6375 | 1161 | -194 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1J | -6386 | 1161 | -194 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1K | -6375 | 1161 | -206 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1L | -6386 | 1161 | -206 | 0 | -- | -- | -- | -0.85 | 0.07 | 1.00 | 0.16 | 1.30 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -42282 | 867 | -824 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1B | -42293 | 867 | -824 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1C | -42282 | 867 | -835 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1D | -42293 | 867 | -835 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -42274 | 870 | -816 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1J | -42300 | 870 | -816 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1K | -42274 | 870 | -842 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1L | -42300 | 870 | -842 | 0 | -- | -- | -- | -2.83 | 0.25 | 1.00 | 0.06 | 2.78 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -23427 | 434 | 1034 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1B | -23438 | 434 | 1034 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1C | -23427 | 434 | 1023 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1D | -23438 | 434 | 1023 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23419 | 435 | 1042 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1J | -23445 | 435 | 1042 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1K | -23419 | 435 | 1015 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1L | -23445 | 435 | 1015 | 0 | -- | -- | -- | -3.13 | 0.27 | 1.00 | 0.06 | 3.01 | 0.04 | 0.00 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -41128 | 2192 | -1231 | 4461 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1B | -41140 | 2192 | -1231 | 4459 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1C | -41128 | 2192 | -1239 | 4461 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1D | -41140 | 2192 | -1239 | 4459 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -41120 | 2195 | -1225 | 4462 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1J | -41149 | 2195 | -1225 | 4458 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1K | -41120 | 2195 | -1245 | 4462 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1L | -41149 | 2195 | -1245 | 4458 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.11 | 2.20 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -81921 | 2109 | -178 | -2746 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.67 | 0.05 | -- | -- | |
| ½ | 1B | -81943 | 2109 | -178 | -2752 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.68 | 0.05 | -- | -- | |
| ½ | 1C | -81921 | 2109 | -188 | -2746 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.67 | 0.05 | -- | -- | |
| ½ | 1D | -81943 | 2109 | -188 | -2752 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.68 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -81905 | 2113 | -171 | -2742 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.67 | 0.05 | -- | -- | |
| ½ | 1J | -81959 | 2113 | -171 | -2755 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.68 | 0.05 | -- | -- | |
| ½ | 1K | -81905 | 2113 | -195 | -2742 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.67 | 0.05 | -- | -- | |
| ½ | 1L | -81959 | 2113 | -195 | -2755 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.07 | 2.68 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -57048 | 1717 | 1863 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.80 | 0.06 | 0.04 | 0.12 | |
| 0 | 1B | -57060 | 1717 | 1863 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.80 | 0.06 | 0.04 | 0.12 | |
| 0 | 1C | -57048 | 1717 | 1846 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.80 | 0.06 | 0.04 | 0.11 | |
| 0 | 1D | -57060 | 1717 | 1846 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.80 | 0.06 | 0.04 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -57039 | 1721 | 1875 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.79 | 0.06 | 0.04 | 0.12 | |
| 0 | 1J | -57069 | 1721 | 1875 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.80 | 0.06 | 0.04 | 0.12 | |
| 0 | 1K | -57039 | 1721 | 1834 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.79 | 0.06 | 0.04 | 0.11 | |
| 0 | 1L | -57069 | 1721 | 1834 | -1933 | -- | -- | -- | -2.85 | 0.25 | 1.00 | 0.09 | 2.80 | 0.06 | 0.04 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -7495 | 2738 | 160 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.07 | 0.50 | -- | -- | |
| l | 1B | -7500 | 2738 | 160 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.08 | 0.50 | -- | -- | |
| l | 1C | -7495 | 2738 | 160 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.07 | 0.50 | -- | -- | |
| l | 1D | -7500 | 2738 | 160 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.08 | 0.50 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -7492 | 2738 | 161 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.07 | 0.50 | -- | -- | |
| l | 1J | -7504 | 2738 | 161 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.08 | 0.50 | -- | -- | |
| l | 1K | -7492 | 2738 | 159 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.07 | 0.50 | -- | -- | |
| l | 1L | -7504 | 2738 | 159 | 0 | -- -- | -- | -1.43 | 0.08 | 1.00 | 0.52 | 2.08 | 0.50 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -25316 | 1514 | 217 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.81 | 0.10 | -- | -- | |
| ½ | 1B | -25322 | 1514 | 217 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.81 | 0.10 | -- | -- | |
| ½ | 1C | -25316 | 1514 | 215 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.81 | 0.10 | -- | -- | |
| ½ | 1D | -25322 | 1514 | 215 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.81 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -25313 | 1515 | 218 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.81 | 0.10 | -- | -- | |
| ½ | 1J | -25325 | 1515 | 218 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.82 | 0.10 | -- | -- | |
| ½ | 1K | -25313 | 1515 | 213 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.81 | 0.10 | -- | -- | |
| ½ | 1L | -25325 | 1515 | 213 | 0 | -- -- | -- | -2.42 | 0.14 | 1.00 | 0.14 | 2.82 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -16401 | 954 | 17 | 0 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1B | -16415 | 954 | 17 | 0 | -- -- | -- | -3.14 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1C | -16401 | 954 | 14 | 0 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1D | -16415 | 954 | 14 | 0 | -- -- | -- | -3.14 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -16392 | 960 | 18 | 0 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1J | -16425 | 960 | 18 | 0 | -- -- | -- | -3.14 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1K | -16392 | 960 | 13 | 0 | -- -- | -- | -3.13 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1L | -16425 | 960 | 13 | 0 | -- -- | -- | -3.14 | 0.18 | 1.00 | 0.18 | 3.35 | 0.11 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -11248 | 1995 | 67 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1B | -11253 | 1995 | 67 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1C | -11248 | 1995 | 66 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1D | -11253 | 1995 | 66 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11245 | 2000 | 68 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1J | -11256 | 2000 | 68 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1K | -11245 | 2000 | 65 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1L | -11256 | 2000 | 65 | 0 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -86462 | 6221 | -1035 | 559 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1B | -86531 | 6221 | -1035 | 557 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1C | -86462 | 6221 | -1040 | 559 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1D | -86531 | 6221 | -1040 | 557 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -86413 | 6250 | -1031 | 560 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1J | -86580 | 6250 | -1031 | 556 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1K | -86413 | 6250 | -1043 | 560 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1L | -86580 | 6250 | -1043 | 556 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.19 | 2.64 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -22473 | 1216 | 37 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1B | -22487 | 1216 | 37 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1C | -22473 | 1216 | 34 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1D | -22487 | 1216 | 34 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -22463 | 1223 | 39 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1J | -22497 | 1223 | 39 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1K | -22463 | 1223 | 33 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1L | -22497 | 1223 | 33 | 0 | -- | -- | -- | -2.13 | 0.19 | 1.00 | 0.12 | 2.26 | 0.10 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -11720 | 75 | -82 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1B | -11723 | 75 | -82 | 0 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1C | -11720 | 75 | -83 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1D | -11723 | 75 | -83 | 0 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11718 | 75 | -82 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1J | -11725 | 75 | -82 | 0 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1K | -11718 | 75 | -83 | 0 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1L | -11725 | 75 | -83 | 0 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.01 | 1.59 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -74784 | 2298 | -483 | -214 | -- | -- | -- | -2.37 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1B | -74811 | 2298 | -483 | -212 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1C | -74784 | 2298 | -486 | -214 | -- | -- | -- | -2.37 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1D | -74811 | 2298 | -486 | -212 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -74765 | 2304 | -481 | -215 | -- | -- | -- | -2.37 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1J | -74830 | 2304 | -481 | -211 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1K | -74765 | 2304 | -487 | -215 | -- | -- | -- | -2.37 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1L | -74830 | 2304 | -487 | -211 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.07 | 2.44 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11630 | 253 | -107 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1B | -11630 | 253 | -107 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1C | -11630 | 253 | -108 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1D | -11630 | 253 | -108 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11629 | 253 | -107 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1J | -11631 | 253 | -107 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1K | -11629 | 253 | -108 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1L | -11631 | 253 | -108 | 0 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.04 | 2.07 | 0.04 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -11707 | 1331 | 44 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1B | -11712 | 1331 | 44 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1C | -11707 | 1331 | 43 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1D | -11712 | 1331 | 43 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11703 | 1331 | 45 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1J | -11716 | 1331 | 45 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1K | -11703 | 1331 | 42 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1L | -11716 | 1331 | 42 | -337 | -- | -- | -- | -1.22 | 0.11 | 1.00 | 0.14 | 1.58 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -49024 | 2908 | -58 | -877 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1B | -49037 | 2908 | -58 | -875 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1C | -49024 | 2908 | -61 | -877 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1D | -49037 | 2908 | -61 | -875 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -49014 | 2911 | -56 | -878 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1J | -49047 | 2911 | -56 | -874 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1K | -49014 | 2911 | -63 | -878 | -- | -- | -- | -2.55 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1L | -49047 | 2911 | -63 | -874 | -- | -- | -- | -2.56 | 0.22 | 1.00 | 0.15 | 2.58 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -22199 | 2018 | 61 | 1130 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1B | -22205 | 2018 | 61 | 1130 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1C | -22199 | 2018 | 60 | 1130 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1D | -22205 | 2018 | 60 | 1130 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -22195 | 2023 | 62 | 1130 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1J | -22209 | 2023 | 62 | 1130 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1K | -22195 | 2023 | 59 | 1130 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1L | -22209 | 2023 | 59 | 1130 | -- | -- | -- | -2.32 | 0.20 | 1.00 | 0.21 | 2.40 | 0.18 | 0.10 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -18504 | 313 | -1891 | -88 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.03 | 2.13 | 0.03 | -- | -- | |
| l | 1B | -18511 | 313 | -1891 | -88 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.03 | 2.13 | 0.03 | -- | -- | |
| l | 1C | -18504 | 313 | -1893 | -88 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.03 | 2.13 | 0.03 | -- | -- | |
| l | 1D | -18511 | 313 | -1893 | -88 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.03 | 2.13 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18498 | 318 | -1890 | -88 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.03 | 2.12 | 0.03 | -- | -- | |
| l | 1J | -18516 | 318 | -1890 | -87 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.03 | 2.13 | 0.03 | -- | -- | |
| l | 1K | -18498 | 318 | -1895 | -88 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.03 | 2.12 | 0.03 | -- | -- | |
| l | 1L | -18516 | 318 | -1895 | -87 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.03 | 2.13 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -55673 | 2290 | -1781 | 315 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.86 | 0.08 | -- | -- | |
| ½ | 1B | -55696 | 2290 | -1781 | 316 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.87 | 0.08 | -- | -- | |
| ½ | 1C | -55673 | 2290 | -1781 | 315 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.86 | 0.08 | -- | -- | |
| ½ | 1D | -55696 | 2290 | -1781 | 316 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.87 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -55658 | 2296 | -1780 | 314 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.86 | 0.08 | -- | -- | |
| ½ | 1J | -55712 | 2296 | -1780 | 318 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.87 | 0.08 | -- | -- | |
| ½ | 1K | -55658 | 2296 | -1782 | 314 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.86 | 0.08 | -- | -- | |
| ½ | 1L | -55712 | 2296 | -1782 | 318 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.12 | 2.87 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -30752 | 2160 | 1748 | -231 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.10 | 0.15 | 0.02 | 0.23 | |
| 0 | 1B | -30767 | 2160 | 1748 | -230 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.10 | 0.15 | 0.02 | 0.23 | |
| 0 | 1C | -30752 | 2160 | 1747 | -231 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.10 | 0.15 | 0.02 | 0.23 | |
| 0 | 1D | -30767 | 2160 | 1747 | -230 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.10 | 0.15 | 0.02 | 0.23 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -30742 | 2164 | 1748 | -231 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.09 | 0.15 | 0.02 | 0.23 | |
| 0 | 1J | -30777 | 2164 | 1748 | -230 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.10 | 0.15 | 0.02 | 0.23 | |
| 0 | 1K | -30742 | 2164 | 1747 | -231 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.09 | 0.15 | 0.02 | 0.23 | |
| 0 | 1L | -30777 | 2164 | 1747 | -230 | -- | -- | -- | -3.25 | 0.28 | 1.00 | 0.23 | 3.10 | 0.15 | 0.02 | 0.23 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -17513 | 3302 | -1964 | -49 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1B | -17519 | 3302 | -1964 | -49 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1C | -17513 | 3302 | -1966 | -49 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1D | -17519 | 3302 | -1966 | -49 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -17509 | 3308 | -1963 | -50 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1J | -17524 | 3308 | -1963 | -49 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1K | -17509 | 3308 | -1967 | -50 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1L | -17524 | 3308 | -1967 | -49 | -- | -- | -- | -2.05 | 0.18 | 1.00 | 0.39 | 2.19 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -53869 | 1712 | -1592 | -619 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1B | -53893 | 1712 | -1592 | -619 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1C | -53869 | 1712 | -1593 | -619 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1D | -53893 | 1712 | -1593 | -619 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -53853 | 1719 | -1592 | -619 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1J | -53910 | 1719 | -1592 | -619 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1K | -53853 | 1719 | -1593 | -619 | -- | -- | -- | -3.14 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1L | -53910 | 1719 | -1593 | -619 | -- | -- | -- | -3.15 | 0.27 | 1.00 | 0.10 | 3.02 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29555 | 3007 | 1696 | 652 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1B | -29573 | 3007 | 1696 | 653 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1C | -29555 | 3007 | 1695 | 652 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1D | -29573 | 3007 | 1695 | 653 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29543 | 3011 | 1696 | 652 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1J | -29585 | 3011 | 1696 | 654 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1K | -29543 | 3011 | 1695 | 652 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1L | -29585 | 3011 | 1695 | 654 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.35 | 3.25 | 0.22 | 0.06 | 0.24 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3731 | 1863 | -150 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1B | -3730 | 1863 | -150 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1C | -3731 | 1863 | -151 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1D | -3730 | 1863 | -151 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -3732 | 1864 | -150 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1J | -3729 | 1864 | -150 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1K | -3732 | 1864 | -151 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1L | -3729 | 1864 | -151 | 0 | -- | -- | -- | -0.88 | 0.05 | 1.00 | 0.44 | 1.66 | 0.53 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -31047 | 1166 | -150 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1B | -31059 | 1166 | -150 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1C | -31047 | 1166 | -151 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1D | -31059 | 1166 | -151 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -31038 | 1170 | -149 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1J | -31068 | 1170 | -149 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1K | -31038 | 1170 | -152 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1L | -31068 | 1170 | -152 | 0 | -- | -- | -- | -2.76 | 0.16 | 1.00 | 0.10 | 3.07 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -17151 | 740 | 238 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.29 | 0.08 | 0.00 | 0.05 | |
| 0 | 1B | -17154 | 740 | 238 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.29 | 0.08 | 0.00 | 0.05 | |
| 0 | 1C | -17151 | 740 | 237 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.29 | 0.08 | 0.00 | 0.05 | |
| 0 | 1D | -17154 | 740 | 237 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.29 | 0.08 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -17148 | 741 | 239 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.28 | 0.08 | 0.00 | 0.05 | |
| 0 | 1J | -17156 | 741 | 239 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.29 | 0.08 | 0.00 | 0.05 | |
| 0 | 1K | -17148 | 741 | 237 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.28 | 0.08 | 0.00 | 0.05 | |
| 0 | 1L | -17156 | 741 | 237 | 0 | -- | -- | -- | -3.05 | 0.18 | 1.00 | 0.13 | 3.29 | 0.08 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -30104 | 708 | 356 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1B | -30106 | 708 | 356 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1C | -30104 | 708 | 355 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1D | -30106 | 708 | 355 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -30103 | 709 | 357 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1J | -30107 | 709 | 357 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1K | -30103 | 709 | 353 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1L | -30107 | 709 | 353 | -934 | -- | -- | -- | -2.24 | 0.19 | 1.00 | 0.05 | 2.34 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -37797 | 1677 | 628 | 1596 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1B | -37802 | 1677 | 628 | 1597 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.83 | 0.09 | -- | -- | |
| ½ | 1C | -37797 | 1677 | 626 | 1596 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1D | -37802 | 1677 | 626 | 1597 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.83 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -37795 | 1678 | 630 | 1595 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1J | -37804 | 1678 | 630 | 1598 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.83 | 0.09 | -- | -- | |
| ½ | 1K | -37795 | 1678 | 624 | 1595 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.82 | 0.09 | -- | -- | |
| ½ | 1L | -37804 | 1678 | 624 | 1598 | -- | -- | -- | -2.89 | 0.25 | 1.00 | 0.13 | 2.83 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -40859 | 1686 | 354 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1B | -40864 | 1686 | 354 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1C | -40859 | 1686 | 352 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1D | -40864 | 1686 | 352 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40856 | 1687 | 356 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1J | -40867 | 1687 | 356 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1K | -40856 | 1687 | 350 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1L | -40867 | 1687 | 350 | 185 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.13 | 3.00 | 0.09 | 0.01 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -38605 | 7446 | -1601 | -2985 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1B | -38618 | 7446 | -1601 | -2986 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1C | -38605 | 7446 | -1603 | -2985 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1D | -38618 | 7446 | -1603 | -2986 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -38596 | 7454 | -1600 | -2984 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1J | -38627 | 7454 | -1600 | -2987 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1K | -38596 | 7454 | -1603 | -2984 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1L | -38627 | 7454 | -1603 | -2987 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.31 | 1.85 | 0.33 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -96867 | 2647 | -481 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1B | -96882 | 2647 | -481 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1C | -96867 | 2647 | -484 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1D | -96882 | 2647 | -484 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -96857 | 2651 | -479 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1J | -96892 | 2651 | -479 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1K | -96857 | 2651 | -486 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1L | -96892 | 2651 | -486 | -6032 | -- | -- | -- | -1.99 | 0.17 | 1.00 | 0.05 | 2.16 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -56525 | 1930 | 2339 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1B | -56527 | 1930 | 2339 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1C | -56525 | 1930 | 2333 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1D | -56527 | 1930 | 2333 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -56524 | 1931 | 2343 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1J | -56528 | 1931 | 2343 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1K | -56524 | 1931 | 2329 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1L | -56528 | 1931 | 2329 | -4572 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.08 | 2.41 | 0.07 | 0.06 | 0.15 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -36876 | 3691 | -5611 | 1890 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1B | -36885 | 3691 | -5611 | 1889 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1C | -36876 | 3691 | -5620 | 1890 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1D | -36885 | 3691 | -5620 | 1889 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -36869 | 3697 | -5604 | 1890 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1J | -36892 | 3697 | -5604 | 1889 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1K | -36869 | 3697 | -5627 | 1890 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1L | -36892 | 3697 | -5627 | 1889 | -- | -- | -- | -2.52 | 0.22 | 1.00 | 0.25 | 2.55 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -86316 | 3015 | -3667 | 1958 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1B | -86327 | 3015 | -3667 | 1956 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1C | -86316 | 3015 | -3670 | 1958 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1D | -86327 | 3015 | -3670 | 1956 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -86308 | 3018 | -3665 | 1960 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1J | -86334 | 3018 | -3665 | 1954 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1K | -86308 | 3018 | -3673 | 1960 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1L | -86334 | 3018 | -3673 | 1954 | -- | -- | -- | -2.94 | 0.26 | 1.00 | 0.10 | 2.87 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48045 | 1837 | 4082 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1B | -48049 | 1837 | 4082 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1C | -48045 | 1837 | 4078 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1D | -48049 | 1837 | 4078 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48043 | 1838 | 4085 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1J | -48052 | 1838 | 4085 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1K | -48043 | 1838 | 4076 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1L | -48052 | 1838 | 4076 | -1168 | -- | -- | -- | -3.28 | 0.28 | 1.00 | 0.13 | 3.12 | 0.08 | 0.04 | 0.35 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -39938 | 9771 | -5837 | 1035 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1B | -39946 | 9771 | -5837 | 1032 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1C | -39938 | 9771 | -5842 | 1035 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1D | -39946 | 9771 | -5842 | 1032 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -39933 | 9778 | -5834 | 1037 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1J | -39951 | 9778 | -5834 | 1031 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1K | -39933 | 9778 | -5845 | 1037 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1L | -39951 | 9778 | -5845 | 1031 | -- | -- | -- | -3.18 | 0.28 | 1.00 | 0.78 | 3.05 | 0.51 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -89642 | 4339 | -3858 | -2208 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1B | -89655 | 4339 | -3858 | -2210 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1C | -89642 | 4339 | -3862 | -2208 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1D | -89655 | 4339 | -3862 | -2210 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -89633 | 4340 | -3855 | -2208 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1J | -89664 | 4340 | -3855 | -2210 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1K | -89633 | 4340 | -3865 | -2208 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1L | -89664 | 4340 | -3865 | -2210 | -- | -- | -- | -3.57 | 0.31 | 1.00 | 0.17 | 3.34 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -49004 | 2466 | 4368 | 30 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1B | -49007 | 2466 | 4368 | 29 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1C | -49004 | 2466 | 4363 | 30 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1D | -49007 | 2466 | 4363 | 29 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49002 | 2466 | 4371 | 31 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1J | -49009 | 2466 | 4371 | 29 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1K | -49002 | 2466 | 4360 | 31 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1L | -49009 | 2466 | 4360 | 29 | -- | -- | -- | -3.90 | 0.34 | 1.00 | 0.20 | 3.59 | 0.11 | 0.00 | 0.41 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -31290 | 14545 | -1953 | -2582 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1B | -31295 | 14545 | -1953 | -2581 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1C | -31290 | 14545 | -1955 | -2582 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1D | -31295 | 14545 | -1955 | -2581 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -31287 | 14551 | -1952 | -2583 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1J | -31299 | 14551 | -1952 | -2580 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1K | -31287 | 14551 | -1957 | -2583 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1L | -31299 | 14551 | -1957 | -2580 | -- -- | -- | -1.94 | 0.17 | 1.00 | 0.90 | 2.11 | 0.85 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -86214 | 4110 | -1214 | -6039 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1B | -86232 | 4110 | -1214 | -6041 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1C | -86214 | 4110 | -1215 | -6039 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1D | -86232 | 4110 | -1215 | -6041 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -86202 | 4113 | -1214 | -6038 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1J | -86244 | 4113 | -1214 | -6042 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1K | -86202 | 4113 | -1216 | -6038 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1L | -86244 | 4113 | -1216 | -6042 | -- -- | -- | -2.67 | 0.23 | 1.00 | 0.13 | 2.66 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48485 | 2055 | 1527 | -442 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1B | -48487 | 2055 | 1527 | -442 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1C | -48485 | 2055 | 1527 | -442 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1D | -48487 | 2055 | 1527 | -442 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48484 | 2056 | 1528 | -441 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1J | -48489 | 2056 | 1528 | -442 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1K | -48484 | 2056 | 1526 | -441 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1L | -48489 | 2056 | 1526 | -442 | -- -- | -- | -3.00 | 0.26 | 1.00 | 0.13 | 2.91 | 0.09 | 0.01 | 0.12 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12908 | 4568 | 62 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1B | -12910 | 4568 | 62 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1C | -12908 | 4568 | 62 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1D | -12910 | 4568 | 62 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12906 | 4571 | 62 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1J | -12912 | 4571 | 62 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1K | -12906 | 4571 | 61 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1L | -12912 | 4571 | 61 | 0 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.49 | 1.69 | 0.58 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -40072 | 1434 | -207 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1B | -40081 | 1434 | -207 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1C | -40072 | 1434 | -207 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1D | -40081 | 1434 | -207 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -40066 | 1435 | -206 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1J | -40087 | 1435 | -206 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1K | -40066 | 1435 | -208 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1L | -40087 | 1435 | -208 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.08 | 2.26 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -23539 | 486 | 212 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1B | -23541 | 486 | 212 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1C | -23539 | 486 | 212 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1D | -23541 | 486 | 212 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23538 | 486 | 213 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1J | -23542 | 486 | 213 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1K | -23538 | 486 | 212 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1L | -23542 | 486 | 212 | 0 | -- | -- | -- | -2.51 | 0.22 | 1.00 | 0.05 | 2.54 | 0.04 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -13510 | 874 | -87 | -748 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1B | -13515 | 874 | -87 | -748 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1C | -13510 | 874 | -89 | -748 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1D | -13515 | 874 | -89 | -748 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -13506 | 876 | -86 | -749 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1J | -13518 | 876 | -86 | -747 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1K | -13506 | 876 | -90 | -749 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1L | -13518 | 876 | -90 | -747 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.08 | 1.54 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17836 | 732 | -190 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1B | -17836 | 732 | -190 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1C | -17836 | 732 | -190 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1D | -17836 | 732 | -190 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17835 | 733 | -189 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1J | -17837 | 733 | -189 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1K | -17835 | 733 | -191 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1L | -17837 | 733 | -191 | 381 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.07 | 1.99 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -21216 | 415 | 248 | -1120 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1B | -21218 | 415 | 248 | -1120 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1C | -21216 | 415 | 247 | -1120 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1D | -21218 | 415 | 247 | -1120 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21215 | 416 | 248 | -1121 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1J | -21219 | 416 | 248 | -1120 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1K | -21215 | 416 | 247 | -1121 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1L | -21219 | 416 | 247 | -1120 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.03 | 1.95 | 0.03 | 0.08 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -16704 | 3146 | -916 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1B | -16706 | 3146 | -916 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1C | -16704 | 3146 | -917 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1D | -16706 | 3146 | -917 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16703 | 3147 | -915 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1J | -16708 | 3147 | -915 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1K | -16703 | 3147 | -918 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1L | -16708 | 3147 | -918 | -1065 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.22 | 1.56 | 0.29 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -33423 | 302 | -727 | -633 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1B | -33426 | 302 | -727 | -633 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1C | -33423 | 302 | -729 | -633 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1D | -33426 | 302 | -729 | -633 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -33422 | 303 | -726 | -634 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1J | -33427 | 303 | -726 | -633 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1K | -33422 | 303 | -730 | -634 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1L | -33427 | 303 | -730 | -633 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.02 | 2.13 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29109 | 1182 | 1075 | 2506 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.08 | 0.07 | 0.11 | 0.11 | |
| 0 | 1B | -29114 | 1182 | 1075 | 2506 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.08 | 0.07 | 0.11 | 0.11 | |
| 0 | 1C | -29109 | 1182 | 1074 | 2506 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.08 | 0.07 | 0.11 | 0.11 | |
| 0 | 1D | -29114 | 1182 | 1074 | 2506 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.08 | 0.07 | 0.11 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29106 | 1184 | 1076 | 2506 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.08 | 0.07 | 0.11 | 0.11 | |
| 0 | 1J | -29117 | 1184 | 1076 | 2505 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.09 | 0.07 | 0.11 | 0.11 | |
| 0 | 1K | -29106 | 1184 | 1073 | 2506 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.08 | 0.07 | 0.11 | 0.11 | |
| 0 | 1L | -29117 | 1184 | 1073 | 2505 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.08 | 2.09 | 0.07 | 0.11 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -25759 | 2903 | -1784 | -239 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1B | -25761 | 2903 | -1784 | -238 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1C | -25759 | 2903 | -1787 | -239 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1D | -25761 | 2903 | -1787 | -238 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -25757 | 2904 | -1782 | -239 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1J | -25762 | 2904 | -1782 | -238 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1K | -25757 | 2904 | -1789 | -239 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1L | -25762 | 2904 | -1789 | -238 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.16 | 1.73 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -64337 | 1801 | -1168 | 286 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1B | -64341 | 1801 | -1168 | 287 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1C | -64337 | 1801 | -1179 | 286 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1D | -64341 | 1801 | -1179 | 287 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -64335 | 1801 | -1160 | 286 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1J | -64344 | 1801 | -1160 | 288 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1K | -64335 | 1801 | -1187 | 286 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1L | -64344 | 1801 | -1187 | 288 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.05 | 2.06 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -37888 | 1395 | 1033 | 1267 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1B | -37892 | 1395 | 1033 | 1267 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1C | -37888 | 1395 | 1024 | 1267 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1D | -37892 | 1395 | 1024 | 1267 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -37885 | 1397 | 1039 | 1267 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1J | -37895 | 1397 | 1039 | 1268 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1K | -37885 | 1397 | 1017 | 1267 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1L | -37895 | 1397 | 1017 | 1268 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.08 | 2.31 | 0.07 | 0.04 | 0.09 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -22011 | 2360 | -871 | -275 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1B | -22013 | 2360 | -871 | -275 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1C | -22011 | 2360 | -875 | -275 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1D | -22013 | 2360 | -875 | -275 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -22009 | 2364 | -868 | -276 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1J | -22015 | 2364 | -868 | -274 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1K | -22009 | 2364 | -878 | -276 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1L | -22015 | 2364 | -878 | -274 | -- | -- | -- | -1.26 | 0.11 | 1.00 | 0.13 | 1.60 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -62100 | 1627 | -744 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1B | -62106 | 1627 | -744 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1C | -62100 | 1627 | -759 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1D | -62106 | 1627 | -759 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -62097 | 1630 | -733 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1J | -62109 | 1630 | -733 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1K | -62097 | 1630 | -769 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1L | -62109 | 1630 | -769 | -179 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.05 | 1.99 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -36885 | 672 | 582 | 770 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1B | -36892 | 672 | 582 | 771 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1C | -36885 | 672 | 568 | 770 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1D | -36892 | 672 | 568 | 771 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -36880 | 674 | 591 | 770 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1J | -36898 | 674 | 591 | 772 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1K | -36880 | 674 | 559 | 770 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1L | -36898 | 674 | 559 | 772 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.04 | 2.24 | 0.03 | 0.02 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14795 | 1442 | -1452 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1B | -14797 | 1442 | -1452 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1C | -14795 | 1442 | -1454 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1D | -14797 | 1442 | -1454 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14794 | 1449 | -1451 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1J | -14799 | 1449 | -1451 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1K | -14794 | 1449 | -1456 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1L | -14799 | 1449 | -1456 | 78 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.13 | 1.66 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -42994 | 785 | -1345 | -165 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1B | -43002 | 785 | -1345 | -165 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1C | -42994 | 785 | -1352 | -165 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1D | -43002 | 785 | -1352 | -165 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -42988 | 788 | -1340 | -164 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1J | -43009 | 788 | -1340 | -165 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1K | -42988 | 788 | -1357 | -164 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1L | -43009 | 788 | -1357 | -165 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.04 | 2.12 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -25173 | 1899 | 627 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1B | -25184 | 1899 | 627 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1C | -25173 | 1899 | 621 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1D | -25184 | 1899 | 621 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -25166 | 1900 | 631 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1J | -25192 | 1900 | 631 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1K | -25166 | 1900 | 616 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1L | -25192 | 1900 | 616 | 143 | -- | -- | -- | -2.28 | 0.20 | 1.00 | 0.17 | 2.37 | 0.15 | 0.01 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -10046 | 2108 | -68 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1B | -10048 | 2108 | -68 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1C | -10046 | 2108 | -68 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1D | -10048 | 2108 | -68 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -10045 | 2113 | -68 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1J | -10049 | 2113 | -68 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1K | -10045 | 2113 | -69 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1L | -10049 | 2113 | -69 | -207 | -- | -- | -- | -0.80 | 0.07 | 1.00 | 0.17 | 1.26 | 0.27 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -36297 | 906 | -305 | -81 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1B | -36303 | 906 | -305 | -82 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1C | -36297 | 906 | -306 | -81 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1D | -36303 | 906 | -306 | -82 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -36293 | 908 | -304 | -81 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1J | -36307 | 908 | -304 | -82 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1K | -36293 | 908 | -307 | -81 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1L | -36307 | 908 | -307 | -82 | -- | -- | -- | -1.45 | 0.13 | 1.00 | 0.04 | 1.75 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -23007 | 679 | -151 | 230 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1B | -23014 | 679 | -151 | 229 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1C | -23007 | 679 | -153 | 230 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1D | -23014 | 679 | -153 | 229 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23002 | 680 | -149 | 231 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1J | -23019 | 680 | -149 | 228 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1K | -23002 | 680 | -155 | 231 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1L | -23019 | 680 | -155 | 228 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.05 | 2.04 | 0.05 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -9570 | 880 | -90 | 164 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1B | -9571 | 880 | -90 | 163 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1C | -9570 | 880 | -91 | 164 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1D | -9571 | 880 | -91 | 163 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -9570 | 881 | -90 | 164 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1J | -9571 | 881 | -90 | 163 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1K | -9570 | 881 | -91 | 164 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1L | -9571 | 881 | -91 | 163 | -- | -- | -- | -0.75 | 0.07 | 1.00 | 0.07 | 1.22 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -35774 | 460 | -197 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1B | -35777 | 460 | -197 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1C | -35774 | 460 | -197 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1D | -35777 | 460 | -197 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -35773 | 461 | -196 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1J | -35778 | 461 | -196 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1K | -35773 | 461 | -197 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1L | -35778 | 461 | -197 | 229 | -- | -- | -- | -1.40 | 0.12 | 1.00 | 0.02 | 1.71 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -24749 | 2051 | -55 | -193 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1B | -24751 | 2051 | -55 | -194 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1C | -24749 | 2051 | -55 | -193 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1D | -24751 | 2051 | -55 | -194 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -24748 | 2051 | -54 | -193 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1J | -24753 | 2051 | -54 | -194 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1K | -24748 | 2051 | -55 | -193 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1L | -24753 | 2051 | -55 | -194 | -- | -- | -- | -1.94 | 0.17 | 1.00 | 0.16 | 2.11 | 0.15 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -14033 | 3167 | -157 | 142 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1B | -14034 | 3167 | -157 | 141 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1C | -14033 | 3167 | -157 | 142 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1D | -14034 | 3167 | -157 | 141 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14033 | 3168 | -157 | 142 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1J | -14035 | 3168 | -157 | 141 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1K | -14033 | 3168 | -158 | 142 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1L | -14035 | 3168 | -158 | 141 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.21 | 1.36 | 0.31 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -47239 | 2027 | -402 | 549 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1B | -47241 | 2027 | -402 | 549 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1C | -47239 | 2027 | -402 | 549 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1D | -47241 | 2027 | -402 | 549 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -47238 | 2028 | -401 | 548 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1J | -47243 | 2028 | -401 | 549 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1K | -47238 | 2028 | -402 | 548 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1L | -47243 | 2028 | -402 | 549 | -- | -- | -- | -1.56 | 0.14 | 1.00 | 0.07 | 1.83 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -28648 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1B | -28650 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1C | -28648 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1D | -28650 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -28647 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1J | -28652 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1K | -28647 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1L | -28652 | 527 | -216 | -406 | -- | -- | -- | -1.90 | 0.16 | 1.00 | 0.03 | 2.08 | 0.03 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -13317 | 5493 | -136 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1B | -13319 | 5493 | -136 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1C | -13317 | 5493 | -137 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1D | -13319 | 5493 | -137 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -13317 | 5495 | -136 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1J | -13320 | 5495 | -136 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1K | -13317 | 5495 | -137 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1L | -13320 | 5495 | -137 | 281 | -- -- | -- | -0.93 | 0.08 | 1.00 | 0.38 | 1.36 | 0.57 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -49276 | 1415 | -669 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1B | -49278 | 1415 | -669 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1C | -49276 | 1415 | -670 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1D | -49278 | 1415 | -670 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -49274 | 1416 | -669 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1J | -49280 | 1416 | -669 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1K | -49274 | 1416 | -671 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1L | -49280 | 1416 | -671 | 766 | -- -- | -- | -1.72 | 0.15 | 1.00 | 0.05 | 1.95 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -32554 | 2143 | -99 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1B | -32557 | 2143 | -99 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1C | -32554 | 2143 | -100 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1D | -32557 | 2143 | -100 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -32551 | 2144 | -99 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1J | -32559 | 2144 | -99 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1K | -32551 | 2144 | -101 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1L | -32559 | 2144 | -101 | -828 | -- -- | -- | -2.28 | 0.20 | 1.00 | 0.15 | 2.37 | 0.13 | 0.04 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -33019 | 4217 | -6655 | 554 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1B | -33024 | 4217 | -6655 | 555 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1C | -33019 | 4217 | -6658 | 554 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1D | -33024 | 4217 | -6658 | 555 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -33016 | 4221 | -6653 | 553 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1J | -33027 | 4221 | -6653 | 556 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1K | -33016 | 4221 | -6661 | 553 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1L | -33027 | 4221 | -6661 | 556 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.24 | 2.05 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -86388 | 1705 | -3527 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1B | -86391 | 1705 | -3527 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1C | -86388 | 1705 | -3528 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1D | -86391 | 1705 | -3528 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -86385 | 1706 | -3526 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1J | -86393 | 1706 | -3526 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1K | -86385 | 1706 | -3529 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1L | -86393 | 1706 | -3529 | -43 | -- | -- | -- | -2.42 | 0.21 | 1.00 | 0.05 | 2.48 | 0.04 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -49134 | 4534 | 3384 | -795 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1B | -49138 | 4534 | 3384 | -795 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1C | -49134 | 4534 | 3382 | -795 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1D | -49138 | 4534 | 3382 | -795 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49132 | 4535 | 3385 | -795 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1J | -49140 | 4535 | 3385 | -794 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1K | -49132 | 4535 | 3381 | -795 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1L | -49140 | 4535 | 3381 | -794 | -- | -- | -- | -2.76 | 0.24 | 1.00 | 0.25 | 2.73 | 0.19 | 0.02 | 0.24 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -27452 | 4856 | 144 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1B | -27454 | 4856 | 144 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1C | -27452 | 4856 | 144 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1D | -27454 | 4856 | 144 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -27451 | 4859 | 144 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1J | -27455 | 4859 | 144 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1K | -27451 | 4859 | 143 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1L | -27455 | 4859 | 143 | 390 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.26 | 1.78 | 0.30 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -85681 | 2412 | -1179 | -840 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1B | -85684 | 2412 | -1179 | -840 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1C | -85681 | 2412 | -1180 | -840 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1D | -85684 | 2412 | -1180 | -840 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -85678 | 2414 | -1179 | -839 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1J | -85687 | 2414 | -1179 | -840 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1K | -85678 | 2414 | -1180 | -839 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1L | -85687 | 2414 | -1180 | -840 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.07 | 2.41 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -51552 | 1312 | 364 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1B | -51557 | 1312 | 364 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1C | -51552 | 1312 | 364 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1D | -51557 | 1312 | 364 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51549 | 1313 | 365 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1J | -51560 | 1313 | 365 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1K | -51549 | 1313 | 364 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1L | -51560 | 1313 | 364 | 525 | -- | -- | -- | -2.81 | 0.24 | 1.00 | 0.07 | 2.76 | 0.05 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -28292 | 4807 | -8987 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1B | -28295 | 4807 | -8987 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1C | -28292 | 4807 | -8990 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1D | -28295 | 4807 | -8990 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -28291 | 4809 | -8986 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1J | -28296 | 4809 | -8986 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1K | -28291 | 4809 | -8991 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1L | -28296 | 4809 | -8991 | -874 | -- | -- | -- | -2.03 | 0.18 | 1.00 | 0.35 | 2.19 | 0.32 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -72709 | 4644 | -4479 | -1600 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1B | -72713 | 4644 | -4479 | -1600 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1C | -72709 | 4644 | -4481 | -1600 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1D | -72713 | 4644 | -4481 | -1600 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -72707 | 4646 | -4478 | -1600 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1J | -72716 | 4646 | -4478 | -1601 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1K | -72707 | 4646 | -4482 | -1600 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1L | -72716 | 4646 | -4482 | -1601 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.17 | 2.62 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -40990 | 4993 | 4437 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1B | -40994 | 4993 | 4437 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1C | -40990 | 4993 | 4436 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1D | -40994 | 4993 | 4436 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40988 | 4993 | 4439 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1J | -40996 | 4993 | 4439 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1K | -40988 | 4993 | 4434 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1L | -40996 | 4993 | 4434 | 1199 | -- | -- | -- | -2.95 | 0.26 | 1.00 | 0.36 | 2.87 | 0.25 | 0.05 | 0.39 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -7751 | 5173 | -156 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1B | -7752 | 5173 | -156 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1C | -7751 | 5173 | -157 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1D | -7752 | 5173 | -157 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -7751 | 5174 | -156 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1J | -7752 | 5174 | -156 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1K | -7751 | 5174 | -157 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1L | -7752 | 5174 | -157 | 0 | -- | -- | -- | -1.17 | 0.07 | 1.00 | 0.78 | 1.88 | 0.83 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -25535 | 1240 | -495 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1B | -25536 | 1240 | -495 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1C | -25535 | 1240 | -496 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1D | -25536 | 1240 | -496 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -25534 | 1240 | -495 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1J | -25537 | 1240 | -495 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1K | -25534 | 1240 | -496 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1L | -25537 | 1240 | -496 | 0 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.09 | 2.44 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -14601 | 696 | 91 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1B | -14602 | 696 | 91 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1C | -14601 | 696 | 91 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1D | -14602 | 696 | 91 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14600 | 696 | 91 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1J | -14602 | 696 | 91 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1K | -14600 | 696 | 90 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1L | -14602 | 696 | 90 | 0 | -- | -- | -- | -2.20 | 0.13 | 1.00 | 0.11 | 2.65 | 0.08 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -5712 | 648 | 36 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1B | -5713 | 648 | 36 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1C | -5712 | 648 | 36 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1D | -5713 | 648 | 36 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5711 | 648 | 36 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1J | -5714 | 648 | 36 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1K | -5711 | 648 | 35 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1L | -5714 | 648 | 35 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.19 | 1.93 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -10669 | 557 | -73 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.04 | 0.11 | -- | -- | |
| ½ | 1B | -10673 | 557 | -73 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.04 | 0.11 | -- | -- | |
| ½ | 1C | -10669 | 557 | -73 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.04 | 0.11 | -- | -- | |
| ½ | 1D | -10673 | 557 | -73 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.04 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -10666 | 558 | -73 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.03 | 0.11 | -- | -- | |
| ½ | 1J | -10676 | 558 | -73 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.04 | 0.11 | -- | -- | |
| ½ | 1K | -10666 | 558 | -74 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.03 | 0.11 | -- | -- | |
| ½ | 1L | -10676 | 558 | -74 | 0 | -- | -- | -- | -3.17 | 0.28 | 1.00 | 0.17 | 3.04 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11943 | 488 | -144 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.14 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1B | -11946 | 488 | -144 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.14 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1C | -11943 | 488 | -144 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.14 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1D | -11946 | 488 | -144 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.14 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11941 | 489 | -143 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.15 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1J | -11947 | 489 | -143 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.15 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1K | -11941 | 489 | -144 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.15 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1L | -11947 | 489 | -144 | 0 | -- | -- | -- | -3.55 | 0.31 | 1.00 | 0.15 | 3.32 | 0.09 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -11493 | 678 | -63 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| l | 1B | -11494 | 678 | -63 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| l | 1C | -11493 | 678 | -64 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| l | 1D | -11494 | 678 | -64 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -11492 | 678 | -63 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.10 | -- | -- | |
| l | 1J | -11495 | 678 | -63 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.10 | -- | -- | |
| l | 1K | -11492 | 678 | -64 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.10 | -- | -- | |
| l | 1L | -11495 | 678 | -64 | 172 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -23044 | 2130 | -114 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1B | -23052 | 2130 | -114 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1C | -23044 | 2130 | -115 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1D | -23052 | 2130 | -115 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -23038 | 2134 | -114 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1J | -23058 | 2134 | -114 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1K | -23038 | 2134 | -115 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1L | -23058 | 2134 | -115 | -544 | -- | -- | -- | -2.69 | 0.23 | 1.00 | 0.25 | 2.68 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26358 | 2663 | 21 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1B | -26367 | 2663 | 21 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1C | -26358 | 2663 | 20 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1D | -26367 | 2663 | 20 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26351 | 2667 | 21 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1J | -26374 | 2667 | 21 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1K | -26351 | 2667 | 19 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1L | -26374 | 2667 | 19 | 518 | -- | -- | -- | -3.08 | 0.27 | 1.00 | 0.31 | 2.97 | 0.21 | 0.05 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -30287 | 1257 | 21 | -2432 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1B | -30289 | 1257 | 21 | -2432 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1C | -30287 | 1257 | 21 | -2432 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1D | -30289 | 1257 | 21 | -2432 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -30286 | 1258 | 21 | -2432 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1J | -30290 | 1258 | 21 | -2433 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1K | -30286 | 1258 | 21 | -2432 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1L | -30290 | 1258 | 21 | -2433 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -44271 | 1258 | -461 | 932 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1B | -44281 | 1258 | -461 | 935 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1C | -44271 | 1258 | -461 | 932 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1D | -44281 | 1258 | -461 | 935 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -44264 | 1266 | -460 | 929 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1J | -44288 | 1266 | -460 | 938 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1K | -44264 | 1266 | -461 | 929 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1L | -44288 | 1266 | -461 | 938 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.08 | 2.67 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -49036 | 3212 | -236 | 1865 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.13 | 0.05 | 0.02 | |
| 0 | 1B | -49047 | 3212 | -236 | 1869 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.13 | 0.05 | 0.02 | |
| 0 | 1C | -49036 | 3212 | -236 | 1865 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.13 | 0.05 | 0.02 | |
| 0 | 1D | -49047 | 3212 | -236 | 1869 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.13 | 0.05 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -49028 | 3220 | -235 | 1862 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.14 | 0.05 | 0.02 | |
| 0 | 1J | -49054 | 3220 | -235 | 1872 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.14 | 0.05 | 0.02 | |
| 0 | 1K | -49028 | 3220 | -237 | 1862 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.14 | 0.05 | 0.02 | |
| 0 | 1L | -49054 | 3220 | -237 | 1872 | -- | -- | -- | -2.99 | 0.26 | 1.00 | 0.20 | 2.90 | 0.14 | 0.05 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 390.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -28182 | 2399 | 114 | -1350 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1B | -28187 | 2399 | 114 | -1349 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1C | -28182 | 2399 | 113 | -1350 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1D | -28187 | 2399 | 113 | -1349 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -28179 | 2401 | 115 | -1350 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1J | -28190 | 2401 | 115 | -1349 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1K | -28179 | 2401 | 113 | -1350 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1L | -28190 | 2401 | 113 | -1349 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.14 | 1.86 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -44110 | 7192 | 574 | -2687 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.38 | 2.43 | 0.32 | -- | -- | |
| ½ | 1B | -44115 | 7192 | 574 | -2690 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.38 | 2.43 | 0.32 | -- | -- | |
| ½ | 1C | -44110 | 7192 | 573 | -2687 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.38 | 2.43 | 0.32 | -- | -- | |
| ½ | 1D | -44115 | 7192 | 573 | -2690 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.38 | 2.43 | 0.32 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -44106 | 7198 | 574 | -2685 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.39 | 2.43 | 0.32 | -- | -- | |
| ½ | 1J | -44119 | 7198 | 574 | -2692 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.39 | 2.43 | 0.32 | -- | -- | |
| ½ | 1K | -44106 | 7198 | 572 | -2685 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.39 | 2.43 | 0.32 | -- | -- | |
| ½ | 1L | -44119 | 7198 | 572 | -2692 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.39 | 2.43 | 0.32 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48944 | 7803 | -158 | -2329 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1B | -48950 | 7803 | -158 | -2332 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1C | -48944 | 7803 | -159 | -2329 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1D | -48950 | 7803 | -159 | -2332 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48941 | 7809 | -158 | -2327 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1J | -48953 | 7809 | -158 | -2333 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1K | -48941 | 7809 | -160 | -2327 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1L | -48953 | 7809 | -160 | -2333 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.42 | 2.62 | 0.32 | 0.06 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -38881 | 2602 | 37 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1B | -38883 | 2602 | 37 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1C | -38881 | 2602 | 36 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1D | -38883 | 2602 | 36 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -38880 | 2603 | 38 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1J | -38884 | 2603 | 38 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1K | -38880 | 2603 | 36 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1L | -38884 | 2603 | 36 | 375 | -- -- | -- | -3.09 | 0.18 | 1.00 | 0.21 | 3.32 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -38704 | 2141 | -16 | -58 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1B | -38706 | 2141 | -16 | -57 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1C | -38704 | 2141 | -16 | -58 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1D | -38706 | 2141 | -16 | -57 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -38703 | 2144 | -16 | -58 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1J | -38708 | 2144 | -16 | -57 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1K | -38703 | 2144 | -16 | -58 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1L | -38708 | 2144 | -16 | -57 | -- -- | -- | -2.98 | 0.18 | 1.00 | 0.16 | 3.23 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -40933 | 5632 | -230 | -265 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1B | -40936 | 5632 | -230 | -265 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1C | -40933 | 5632 | -232 | -265 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1D | -40936 | 5632 | -232 | -265 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40932 | 5635 | -230 | -265 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1J | -40938 | 5635 | -230 | -266 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1K | -40932 | 5635 | -232 | -265 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1L | -40938 | 5635 | -232 | -266 | -- -- | -- | -3.05 | 0.18 | 1.00 | 0.42 | 3.29 | 0.26 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -15931 | 141 | 311 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1B | -15933 | 141 | 311 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1C | -15931 | 141 | 311 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1D | -15933 | 141 | 311 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -15930 | 141 | 312 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1J | -15934 | 141 | 312 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1K | -15930 | 141 | 310 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1L | -15934 | 141 | 310 | 0 | -- | -- | -- | -2.70 | 0.16 | 1.00 | 0.02 | 3.03 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -24644 | 100 | -194 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1B | -24648 | 100 | -194 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1C | -24644 | 100 | -195 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1D | -24648 | 100 | -195 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -24642 | 101 | -194 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1J | -24651 | 101 | -194 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1K | -24642 | 101 | -195 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1L | -24651 | 101 | -195 | 0 | -- | -- | -- | -4.18 | 0.25 | 1.00 | 0.02 | 4.14 | 0.01 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -27907 | 1961 | -108 | 0 | -- | -- | -- | -4.73 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1B | -27910 | 1961 | -108 | 0 | -- | -- | -- | -4.74 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1C | -27907 | 1961 | -108 | 0 | -- | -- | -- | -4.73 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1D | -27910 | 1961 | -108 | 0 | -- | -- | -- | -4.74 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27906 | 1961 | -107 | 0 | -- | -- | -- | -4.73 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1J | -27911 | 1961 | -107 | 0 | -- | -- | -- | -4.74 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1K | -27906 | 1961 | -109 | 0 | -- | -- | -- | -4.73 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1L | -27911 | 1961 | -109 | 0 | -- | -- | -- | -4.74 | 0.28 | 1.00 | 0.33 | 4.55 | 0.15 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -16430 | 3453 | -117 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1B | -16432 | 3453 | -117 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1C | -16430 | 3453 | -117 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1D | -16432 | 3453 | -117 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -16428 | 3453 | -117 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1J | -16434 | 3453 | -117 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1K | -16428 | 3453 | -118 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1L | -16434 | 3453 | -118 | -1619 | -- | -- | -- | -2.90 | 0.17 | 1.00 | 0.61 | 3.18 | 0.38 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -29836 | 2630 | 1 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1B | -29836 | 2630 | 1 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1C | -29836 | 2630 | 0 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1D | -29836 | 2630 | 0 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -29835 | 2630 | 1 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1J | -29836 | 2630 | 1 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1K | -29835 | 2630 | 0 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1L | -29836 | 2630 | 0 | -272 | -- | -- | -- | -2.64 | 0.16 | 1.00 | 0.23 | 2.98 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1B | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1C | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1D | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1J | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1K | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1L | -14213 | 1132 | 1 | 133 | -- | -- | -- | -2.51 | 0.15 | 1.00 | 0.20 | 2.88 | 0.14 | 0.03 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -82579 | 4586 | -300 | 17595 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1B | -82586 | 4586 | -300 | 17588 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1C | -82579 | 4586 | -305 | 17595 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1D | -82586 | 4586 | -305 | 17588 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -82575 | 4589 | -297 | 17600 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1J | -82590 | 4589 | -297 | 17583 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1K | -82575 | 4589 | -308 | 17600 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1L | -82590 | 4589 | -308 | 17583 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.14 | 2.50 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -96588 | 6778 | 990 | 14460 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1B | -96594 | 6778 | 990 | 14454 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1C | -96588 | 6778 | 985 | 14460 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1D | -96594 | 6778 | 985 | 14454 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -96584 | 6782 | 993 | 14464 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1J | -96598 | 6782 | 993 | 14450 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1K | -96584 | 6782 | 982 | 14464 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1L | -96598 | 6782 | 982 | 14450 | -- | -- | -- | -2.77 | 0.24 | 1.00 | 0.19 | 2.74 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -106694 | 10464 | 1606 | 3962 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1B | -106700 | 10464 | 1606 | 3960 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1C | -106694 | 10464 | 1594 | 3962 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1D | -106700 | 10464 | 1594 | 3960 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -106691 | 10468 | 1614 | 3964 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1J | -106703 | 10468 | 1614 | 3958 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1K | -106691 | 10468 | 1586 | 3964 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1L | -106703 | 10468 | 1586 | 3958 | -- | -- | -- | -3.12 | 0.27 | 1.00 | 0.31 | 3.00 | 0.20 | 0.02 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -38886 | 1861 | -720 | 2647 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| l | 1B | -38888 | 1861 | -720 | 2647 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| l | 1C | -38886 | 1861 | -724 | 2647 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| l | 1D | -38888 | 1861 | -724 | 2647 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -38885 | 1861 | -717 | 2646 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.44 | 0.09 | -- | -- | |
| l | 1J | -38889 | 1861 | -717 | 2647 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| l | 1K | -38885 | 1861 | -727 | 2646 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.44 | 0.09 | -- | -- | |
| l | 1L | -38889 | 1861 | -727 | 2647 | -- | -- | -- | -3.26 | 0.19 | 1.00 | 0.16 | 3.45 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -49631 | 2833 | -54 | -1392 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1B | -49634 | 2833 | -54 | -1392 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1C | -49631 | 2833 | -55 | -1392 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1D | -49634 | 2833 | -55 | -1392 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -49629 | 2834 | -53 | -1392 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1J | -49635 | 2834 | -53 | -1393 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1K | -49629 | 2834 | -56 | -1392 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1L | -49635 | 2834 | -56 | -1393 | -- | -- | -- | -4.16 | 0.24 | 1.00 | 0.24 | 4.12 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -51629 | 2734 | 692 | -2717 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1B | -51634 | 2734 | 692 | -2717 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1C | -51629 | 2734 | 687 | -2717 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1D | -51634 | 2734 | 687 | -2717 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51626 | 2735 | 696 | -2717 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1J | -51637 | 2735 | 696 | -2716 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1K | -51626 | 2735 | 684 | -2717 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1L | -51637 | 2735 | 684 | -2716 | -- | -- | -- | -4.33 | 0.25 | 1.00 | 0.23 | 4.25 | 0.11 | 0.10 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -16411 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1B | -16413 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1C | -16411 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1D | -16413 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -16410 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1J | -16414 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1K | -16410 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1L | -16414 | 692 | 331 | 321 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.05 | 1.51 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -27612 | 1874 | 85 | -612 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1B | -27617 | 1874 | 85 | -613 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1C | -27612 | 1874 | 85 | -612 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1D | -27617 | 1874 | 85 | -613 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -27609 | 1875 | 85 | -612 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1J | -27621 | 1875 | 85 | -613 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1K | -27609 | 1875 | 84 | -612 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1L | -27621 | 1875 | 84 | -613 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.13 | 2.09 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -31422 | 2931 | -319 | 110 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.29 | 0.18 | 0.00 | 0.04 | |
| 0 | 1B | -31427 | 2931 | -319 | 110 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.29 | 0.18 | 0.00 | 0.04 | |
| 0 | 1C | -31422 | 2931 | -320 | 110 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.29 | 0.18 | 0.00 | 0.04 | |
| 0 | 1D | -31427 | 2931 | -320 | 110 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.29 | 0.18 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -31419 | 2932 | -319 | 110 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.28 | 0.18 | 0.00 | 0.04 | |
| 0 | 1J | -31430 | 2932 | -319 | 111 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.29 | 0.18 | 0.00 | 0.04 | |
| 0 | 1K | -31419 | 2932 | -320 | 110 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.28 | 0.18 | 0.00 | 0.04 | |
| 0 | 1L | -31430 | 2932 | -320 | 111 | -- | -- | -- | -2.17 | 0.19 | 1.00 | 0.20 | 2.29 | 0.18 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -7996 | 151 | 2 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1B | -7996 | 151 | 2 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1C | -7996 | 151 | 2 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1D | -7996 | 151 | 2 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -7995 | 151 | 3 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1J | -7997 | 151 | 3 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1K | -7995 | 151 | 2 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1L | -7997 | 151 | 2 | 201 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.03 | 1.87 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -12848 | 793 | 12 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1B | -12848 | 793 | 12 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1C | -12848 | 793 | 11 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1D | -12848 | 793 | 11 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -12848 | 793 | 12 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1J | -12849 | 793 | 12 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1K | -12848 | 793 | 10 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1L | -12849 | 793 | 10 | -40 | -- | -- | -- | -2.59 | 0.22 | 1.00 | 0.16 | 2.60 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -17707 | 3203 | 40 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1B | -17707 | 3203 | 40 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1C | -17707 | 3203 | 39 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1D | -17707 | 3203 | 39 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -17706 | 3203 | 41 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1J | -17707 | 3203 | 41 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1K | -17706 | 3203 | 38 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1L | -17707 | 3203 | 38 | -364 | -- | -- | -- | -3.56 | 0.31 | 1.00 | 0.64 | 3.33 | 0.39 | 0.09 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -50328 | 4917 | -187 | -2583 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1B | -50333 | 4917 | -187 | -2585 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1C | -50328 | 4917 | -189 | -2583 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1D | -50333 | 4917 | -189 | -2585 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -50325 | 4919 | -186 | -2581 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1J | -50336 | 4919 | -186 | -2586 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1K | -50325 | 4919 | -190 | -2581 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1L | -50336 | 4919 | -190 | -2586 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -93532 | 10376 | -201 | 6345 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1B | -93542 | 10376 | -201 | 6341 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1C | -93532 | 10376 | -203 | 6345 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1D | -93542 | 10376 | -203 | 6341 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -93524 | 10379 | -199 | 6347 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1J | -93549 | 10379 | -199 | 6339 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1K | -93524 | 10379 | -205 | 6347 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1L | -93549 | 10379 | -205 | 6339 | -- | -- | -- | -2.61 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -62280 | 5641 | -99 | 301 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1B | -62287 | 5641 | -99 | 299 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1C | -62280 | 5641 | -101 | 301 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1D | -62287 | 5641 | -101 | 299 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -62276 | 5643 | -98 | 303 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1J | -62291 | 5643 | -98 | 297 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1K | -62276 | 5643 | -102 | 303 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1L | -62291 | 5643 | -102 | 297 | -- | -- | -- | -3.03 | 0.26 | 1.00 | 0.27 | 2.93 | 0.19 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -24835 | 2517 | 178 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1B | -24841 | 2517 | 178 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1C | -24835 | 2517 | 176 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1D | -24841 | 2517 | 176 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -24830 | 2519 | 179 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1J | -24846 | 2519 | 179 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1K | -24830 | 2519 | 175 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1L | -24846 | 2519 | 175 | 516 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.20 | 2.11 | 0.19 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -38599 | 3915 | 66 | 676 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1B | -38606 | 3915 | 66 | 677 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1C | -38599 | 3915 | 63 | 676 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1D | -38606 | 3915 | 63 | 677 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -38593 | 3918 | 68 | 675 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1J | -38612 | 3918 | 68 | 678 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1K | -38593 | 3918 | 61 | 675 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1L | -38612 | 3918 | 61 | 678 | -- | -- | -- | -2.21 | 0.19 | 1.00 | 0.22 | 2.31 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -36132 | 3977 | 279 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.63 | 0.22 | 0.00 | 0.03 | |
| 0 | 1B | -36141 | 3977 | 279 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.63 | 0.22 | 0.00 | 0.03 | |
| 0 | 1C | -36132 | 3977 | 275 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.63 | 0.22 | 0.00 | 0.03 | |
| 0 | 1D | -36141 | 3977 | 275 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.63 | 0.22 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -36126 | 3977 | 281 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | 0.00 | 0.03 | |
| 0 | 1J | -36147 | 3977 | 281 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.63 | 0.22 | 0.00 | 0.03 | |
| 0 | 1K | -36126 | 3977 | 273 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.62 | 0.22 | 0.00 | 0.03 | |
| 0 | 1L | -36147 | 3977 | 273 | 35 | -- | -- | -- | -2.62 | 0.23 | 1.00 | 0.29 | 2.63 | 0.22 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -23678 | 4442 | -328 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1B | -23679 | 4442 | -328 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1C | -23678 | 4442 | -329 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1D | -23679 | 4442 | -329 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -23678 | 4442 | -328 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1J | -23679 | 4442 | -328 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1K | -23678 | 4442 | -330 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1L | -23679 | 4442 | -330 | -2051 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.36 | 2.09 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -50878 | 7733 | -79 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1B | -50879 | 7733 | -79 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1C | -50878 | 7733 | -80 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1D | -50879 | 7733 | -80 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -50878 | 7733 | -79 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1J | -50879 | 7733 | -79 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1K | -50878 | 7733 | -80 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1L | -50879 | 7733 | -80 | -5341 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.32 | 2.23 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -41433 | 6857 | 580 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1B | -41434 | 6857 | 580 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1C | -41433 | 6857 | 580 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1D | -41434 | 6857 | 580 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -41433 | 6857 | 581 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1J | -41434 | 6857 | 581 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1K | -41433 | 6857 | 580 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1L | -41434 | 6857 | 580 | -1412 | -- | -- | -- | -2.53 | 0.22 | 1.00 | 0.42 | 2.56 | 0.33 | 0.04 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15467 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1B | -15468 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1C | -15467 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1D | -15468 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15467 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1J | -15468 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1K | -15467 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1L | -15468 | 1307 | 23 | -65 | -- | -- | -- | -1.80 | 0.16 | 1.00 | 0.15 | 2.01 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -20800 | 3930 | 85 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1B | -20801 | 3930 | 85 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1C | -20800 | 3930 | 84 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1D | -20801 | 3930 | 84 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -20799 | 3930 | 85 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1J | -20801 | 3930 | 85 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1K | -20799 | 3930 | 84 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1L | -20801 | 3930 | 84 | 56 | -- | -- | -- | -2.38 | 0.21 | 1.00 | 0.45 | 2.45 | 0.37 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -26551 | 5384 | -116 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1B | -26552 | 5384 | -116 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1C | -26551 | 5384 | -116 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1D | -26552 | 5384 | -116 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26551 | 5384 | -116 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1J | -26553 | 5384 | -116 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1K | -26551 | 5384 | -117 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1L | -26553 | 5384 | -117 | 232 | -- | -- | -- | -3.04 | 0.26 | 1.00 | 0.62 | 2.94 | 0.42 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -17413 | 2198 | 666 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1B | -17414 | 2198 | 666 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1C | -17413 | 2198 | 666 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1D | -17414 | 2198 | 666 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -17412 | 2198 | 666 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1J | -17415 | 2198 | 666 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1K | -17412 | 2198 | 665 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1L | -17415 | 2198 | 665 | 3 | -- | -- | -- | -1.24 | 0.11 | 1.00 | 0.16 | 1.59 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -30693 | 4035 | 325 | -2046 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1B | -30696 | 4035 | 325 | -2047 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1C | -30693 | 4035 | 325 | -2046 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1D | -30696 | 4035 | 325 | -2047 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -30691 | 4036 | 325 | -2046 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1J | -30699 | 4036 | 325 | -2048 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1K | -30691 | 4036 | 325 | -2046 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1L | -30699 | 4036 | 325 | -2048 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.21 | 1.87 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -28106 | 3814 | -571 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1B | -28108 | 3814 | -571 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1C | -28106 | 3814 | -572 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1D | -28108 | 3814 | -572 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -28105 | 3815 | -571 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1J | -28109 | 3815 | -571 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1K | -28105 | 3815 | -572 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1L | -28109 | 3815 | -572 | -28 | -- | -- | -- | -1.79 | 0.16 | 1.00 | 0.24 | 2.01 | 0.24 | 0.00 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -9024 | 1462 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1B | -9025 | 1462 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1C | -9024 | 1462 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1D | -9025 | 1462 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -9023 | 1463 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1J | -9025 | 1463 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1K | -9023 | 1463 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1L | -9025 | 1463 | -329 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.37 | 2.38 | 0.31 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -20890 | 2296 | -262 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1B | -20892 | 2296 | -262 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1C | -20890 | 2296 | -262 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1D | -20892 | 2296 | -262 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -20889 | 2298 | -261 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1J | -20893 | 2298 | -261 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1K | -20889 | 2298 | -263 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1L | -20893 | 2298 | -263 | 113 | -- | -- | -- | -2.64 | 0.23 | 1.00 | 0.29 | 2.64 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -13660 | 1727 | 496 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1B | -13661 | 1727 | 496 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1C | -13660 | 1727 | 495 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1D | -13661 | 1727 | 495 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -13659 | 1728 | 497 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1J | -13663 | 1728 | 497 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1K | -13659 | 1728 | 495 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1L | -13663 | 1728 | 495 | -12 | -- | -- | -- | -2.68 | 0.23 | 1.00 | 0.34 | 2.67 | 0.25 | 0.00 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -19538 | 2076 | -1716 | 285 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1B | -19542 | 2076 | -1716 | 286 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1C | -19538 | 2076 | -1716 | 285 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1D | -19542 | 2076 | -1716 | 286 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -19536 | 2077 | -1715 | 285 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1J | -19544 | 2077 | -1715 | 286 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1K | -19536 | 2077 | -1717 | 285 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1L | -19544 | 2077 | -1717 | 286 | -- | -- | -- | -1.93 | 0.11 | 1.00 | 0.21 | 2.45 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -28435 | 1478 | -293 | -336 | -- | -- | -- | -3.31 | 0.19 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1B | -28440 | 1478 | -293 | -337 | -- | -- | -- | -3.31 | 0.19 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1C | -28435 | 1478 | -293 | -336 | -- | -- | -- | -3.31 | 0.19 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1D | -28440 | 1478 | -293 | -337 | -- | -- | -- | -3.31 | 0.19 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -28431 | 1479 | -292 | -335 | -- | -- | -- | -3.31 | 0.19 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1J | -28444 | 1479 | -292 | -337 | -- | -- | -- | -3.32 | 0.20 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1K | -28431 | 1479 | -294 | -335 | -- | -- | -- | -3.31 | 0.19 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1L | -28444 | 1479 | -294 | -337 | -- | -- | -- | -3.32 | 0.20 | 1.00 | 0.17 | 3.49 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -29794 | 2610 | 1415 | -846 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.60 | 0.17 | 0.06 | 0.18 | |
| 0 | 1B | -29801 | 2610 | 1415 | -846 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.61 | 0.17 | 0.06 | 0.18 | |
| 0 | 1C | -29794 | 2610 | 1412 | -846 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.60 | 0.17 | 0.06 | 0.18 | |
| 0 | 1D | -29801 | 2610 | 1412 | -846 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.61 | 0.17 | 0.06 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29788 | 2611 | 1417 | -846 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.60 | 0.17 | 0.06 | 0.18 | |
| 0 | 1J | -29806 | 2611 | 1417 | -845 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.61 | 0.17 | 0.06 | 0.18 | |
| 0 | 1K | -29788 | 2611 | 1411 | -846 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.60 | 0.17 | 0.06 | 0.18 | |
| 0 | 1L | -29806 | 2611 | 1411 | -845 | -- | -- | -- | -3.47 | 0.20 | 1.00 | 0.30 | 3.61 | 0.17 | 0.06 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -41536 | 2418 | -1048 | -2928 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1B | -41539 | 2418 | -1048 | -2929 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1C | -41536 | 2418 | -1050 | -2928 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1D | -41539 | 2418 | -1050 | -2929 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -41533 | 2421 | -1046 | -2928 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1J | -41542 | 2421 | -1046 | -2929 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1K | -41533 | 2421 | -1052 | -2928 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1L | -41542 | 2421 | -1052 | -2929 | -- | -- | -- | -1.73 | 0.15 | 1.00 | 0.10 | 1.95 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -46373 | 2475 | 211 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1B | -46377 | 2475 | 211 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1C | -46373 | 2475 | 210 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1D | -46377 | 2475 | 210 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -46370 | 2478 | 212 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1J | -46379 | 2478 | 212 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1K | -46370 | 2478 | 210 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1L | -46379 | 2478 | 210 | -1985 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.10 | 2.10 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -51434 | 3745 | 1841 | -739 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1B | -51440 | 3745 | 1841 | -740 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1C | -51434 | 3745 | 1839 | -739 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1D | -51440 | 3745 | 1839 | -740 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -51430 | 3749 | 1842 | -738 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1J | -51444 | 3749 | 1842 | -741 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1K | -51430 | 3749 | 1838 | -738 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1L | -51444 | 3749 | 1838 | -741 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.16 | 2.26 | 0.14 | 0.01 | 0.13 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1B | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1C | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1D | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1J | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1K | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1L | -2255 | 90 | 9 | 0 | -- | -- | -- | -1.35 | 0.12 | 1.00 | 0.05 | 1.67 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -9553 | 285 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1B | -9553 | 285 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1C | -9553 | 285 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1D | -9553 | 285 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -9552 | 286 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1J | -9554 | 286 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1K | -9552 | 286 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1L | -9554 | 286 | 72 | 0 | -- | -- | -- | -1.43 | 0.12 | 1.00 | 0.04 | 1.73 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -6109 | 282 | 51 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1B | -6109 | 282 | 51 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1C | -6109 | 282 | 50 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1D | -6109 | 282 | 50 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -6109 | 283 | 51 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1J | -6109 | 283 | 51 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1K | -6109 | 283 | 50 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1L | -6109 | 283 | 50 | 0 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.08 | 2.03 | 0.08 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -3641 | 274 | 489 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1B | -3643 | 274 | 489 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1C | -3641 | 274 | 489 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1D | -3643 | 274 | 489 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3640 | 276 | 490 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1J | -3644 | 276 | 490 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1K | -3640 | 276 | 488 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1L | -3644 | 276 | 488 | 0 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.10 | 1.66 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -20136 | 2027 | -1175 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.18 | 2.04 | 0.18 | -- | -- | |
| ½ | 1B | -20142 | 2027 | -1175 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.18 | 2.04 | 0.18 | -- | -- | |
| ½ | 1C | -20136 | 2027 | -1178 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.18 | 2.04 | 0.18 | -- | -- | |
| ½ | 1D | -20142 | 2027 | -1178 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.18 | 2.04 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -20131 | 2032 | -1173 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.19 | 2.04 | 0.18 | -- | -- | |
| ½ | 1J | -20147 | 2032 | -1173 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.19 | 2.04 | 0.18 | -- | -- | |
| ½ | 1K | -20131 | 2032 | -1179 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.19 | 2.04 | 0.18 | -- | -- | |
| ½ | 1L | -20147 | 2032 | -1179 | 0 | -- | -- | -- | -1.84 | 0.16 | 1.00 | 0.19 | 2.04 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11731 | 2122 | -10 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.27 | 0.34 | 0.00 | 0.00 | |
| 0 | 1B | -11737 | 2122 | -10 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.27 | 0.34 | 0.00 | 0.00 | |
| 0 | 1C | -11731 | 2122 | -13 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.27 | 0.34 | 0.00 | 0.00 | |
| 0 | 1D | -11737 | 2122 | -13 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.27 | 0.34 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11727 | 2125 | -8 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.26 | 0.34 | 0.00 | 0.00 | |
| 0 | 1J | -11741 | 2125 | -8 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.27 | 0.34 | 0.00 | 0.00 | |
| 0 | 1K | -11727 | 2125 | -15 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.26 | 0.34 | 0.00 | 0.00 | |
| 0 | 1L | -11741 | 2125 | -15 | 0 | -- | -- | -- | -2.14 | 0.19 | 1.00 | 0.39 | 2.27 | 0.34 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -30894 | 4949 | -4019 | 1722 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1B | -30901 | 4949 | -4019 | 1720 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1C | -30894 | 4949 | -4021 | 1722 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1D | -30901 | 4949 | -4021 | 1720 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -30889 | 4954 | -4017 | 1722 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1J | -30907 | 4954 | -4017 | 1720 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1K | -30889 | 4954 | -4023 | 1722 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1L | -30907 | 4954 | -4023 | 1720 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.28 | 1.98 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -51659 | 8851 | -2289 | -47 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1B | -51673 | 8851 | -2289 | -46 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1C | -51659 | 8851 | -2294 | -47 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1D | -51673 | 8851 | -2294 | -46 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -51649 | 8861 | -2286 | -47 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1J | -51683 | 8861 | -2286 | -46 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1K | -51649 | 8861 | -2297 | -47 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1L | -51683 | 8861 | -2297 | -46 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.32 | 2.06 | 0.31 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -36686 | 7530 | 2131 | -971 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.43 | 2.22 | 0.38 | 0.03 | 0.18 | |
| 0 | 1B | -36702 | 7530 | 2131 | -971 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.43 | 2.22 | 0.38 | 0.03 | 0.18 | |
| 0 | 1C | -36686 | 7530 | 2126 | -971 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.43 | 2.22 | 0.38 | 0.03 | 0.18 | |
| 0 | 1D | -36702 | 7530 | 2126 | -971 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.43 | 2.22 | 0.38 | 0.03 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -36676 | 7541 | 2134 | -972 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.43 | 2.22 | 0.39 | 0.03 | 0.18 | |
| 0 | 1J | -36712 | 7541 | 2134 | -970 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.43 | 2.22 | 0.39 | 0.03 | 0.18 | |
| 0 | 1K | -36676 | 7541 | 2123 | -972 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.43 | 2.22 | 0.39 | 0.03 | 0.18 | |
| 0 | 1L | -36712 | 7541 | 2123 | -970 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.43 | 2.22 | 0.39 | 0.03 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -62471 | 6014 | -1903 | -2136 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1B | -62503 | 6014 | -1903 | -2125 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1C | -62471 | 6014 | -1917 | -2136 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1D | -62503 | 6014 | -1917 | -2125 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -62449 | 6021 | -1894 | -2143 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1J | -62525 | 6021 | -1894 | -2118 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1K | -62449 | 6021 | -1927 | -2143 | -- | -- | -- | -1.67 | 0.14 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1L | -62525 | 6021 | -1927 | -2118 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.16 | 1.91 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -78508 | 6276 | -547 | 9025 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1B | -78544 | 6276 | -547 | 9040 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1C | -78508 | 6276 | -568 | 9025 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1D | -78544 | 6276 | -568 | 9040 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -78483 | 6283 | -533 | 9015 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1J | -78570 | 6283 | -533 | 9050 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1K | -78483 | 6283 | -583 | 9015 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1L | -78570 | 6283 | -583 | 9050 | -- | -- | -- | -2.10 | 0.18 | 1.00 | 0.17 | 2.23 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -88107 | 5166 | 1250 | 5659 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.42 | 0.11 | 0.04 | 0.05 | |
| 0 | 1B | -88166 | 5166 | 1250 | 5687 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.42 | 0.11 | 0.04 | 0.05 | |
| 0 | 1C | -88107 | 5166 | 1164 | 5659 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.42 | 0.11 | 0.04 | 0.04 | |
| 0 | 1D | -88166 | 5166 | 1164 | 5687 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.42 | 0.11 | 0.04 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -88066 | 5195 | 1310 | 5639 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.42 | 0.11 | 0.04 | 0.05 | |
| 0 | 1J | -88208 | 5195 | 1310 | 5707 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.43 | 0.11 | 0.04 | 0.05 | |
| 0 | 1K | -88066 | 5195 | 1104 | 5639 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.42 | 0.11 | 0.04 | 0.04 | |
| 0 | 1L | -88208 | 5195 | 1104 | 5707 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.14 | 2.43 | 0.11 | 0.04 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 116 Descrizione: Maschio murario n. 116
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -38327 | 4451 | 9344 | -4098 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1B | -38330 | 4451 | 9344 | -4098 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1C | -38327 | 4451 | 9342 | -4098 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1D | -38330 | 4451 | 9342 | -4098 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -38325 | 4454 | 9346 | -4097 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1J | -38332 | 4454 | 9346 | -4099 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1K | -38325 | 4454 | 9340 | -4097 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1L | -38332 | 4454 | 9340 | -4099 | -- | -- | -- | -2.83 | 0.17 | 1.00 | 0.33 | 3.12 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -51163 | 2765 | 2916 | 221 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1B | -51168 | 2765 | 2916 | 220 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1C | -51163 | 2765 | 2914 | 221 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1D | -51168 | 2765 | 2914 | 220 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -51159 | 2767 | 2918 | 222 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1J | -51172 | 2767 | 2918 | 220 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1K | -51159 | 2767 | 2912 | 222 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1L | -51172 | 2767 | 2912 | 220 | -- | -- | -- | -3.78 | 0.22 | 1.00 | 0.20 | 3.83 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -54389 | 3472 | -3362 | -1756 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1B | -54392 | 3472 | -3362 | -1756 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1C | -54389 | 3472 | -3364 | -1756 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1D | -54392 | 3472 | -3364 | -1756 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -54387 | 3474 | -3360 | -1756 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1J | -54395 | 3474 | -3360 | -1755 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1K | -54387 | 3474 | -3366 | -1756 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1L | -54395 | 3474 | -3366 | -1755 | -- | -- | -- | -4.02 | 0.24 | 1.00 | 0.26 | 4.01 | 0.13 | 0.06 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 390.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -13530 | 1686 | -1656 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1B | -13537 | 1686 | -1656 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1C | -13530 | 1686 | -1659 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1D | -13537 | 1686 | -1659 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -13524 | 1688 | -1654 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1J | -13543 | 1688 | -1654 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1K | -13524 | 1688 | -1661 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1L | -13543 | 1688 | -1661 | 0 | -- | -- | -- | -1.63 | 0.10 | 1.00 | 0.20 | 2.22 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -17384 | 4059 | -427 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1B | -17396 | 4059 | -427 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1C | -17384 | 4059 | -431 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1D | -17396 | 4059 | -431 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -17375 | 4067 | -425 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1J | -17404 | 4067 | -425 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1K | -17375 | 4067 | -433 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1L | -17404 | 4067 | -433 | 0 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 0.49 | 2.57 | 0.38 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -18973 | 5379 | 679 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.72 | 0.48 | 0.00 | 0.10 | |
| 0 | 1B | -19007 | 5379 | 679 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.72 | 0.48 | 0.00 | 0.10 | |
| 0 | 1C | -18973 | 5379 | 673 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.72 | 0.48 | 0.00 | 0.10 | |
| 0 | 1D | -19007 | 5379 | 673 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.72 | 0.48 | 0.00 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -18950 | 5398 | 684 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.71 | 0.48 | 0.00 | 0.10 | |
| 0 | 1J | -19030 | 5398 | 684 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.72 | 0.48 | 0.00 | 0.10 | |
| 0 | 1K | -18950 | 5398 | 668 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.71 | 0.48 | 0.00 | 0.10 | |
| 0 | 1L | -19030 | 5398 | 668 | 0 | -- | -- | -- | -2.29 | 0.13 | 1.00 | 0.65 | 2.72 | 0.48 | 0.00 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 390.00 cm

| Pos | c. c. | Fx kg | V kg | My kg * m | Mz | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -9143 | 3001 | -246 | 0 | -- | -- | -- | -2.14 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1B | -9146 | 3001 | -246 | 0 | -- | -- | -- | -2.14 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1C | -9143 | 3001 | -249 | 0 | -- | -- | -- | -2.14 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1D | -9146 | 3001 | -249 | 0 | -- | -- | -- | -2.14 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -9141 | 3004 | -243 | 0 | -- | -- | -- | -2.13 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1J | -9148 | 3004 | -243 | 0 | -- | -- | -- | -2.14 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1K | -9141 | 3004 | -252 | 0 | -- | -- | -- | -2.13 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1L | -9148 | 3004 | -252 | 0 | -- | -- | -- | -2.14 | 0.13 | 1.00 | 0.70 | 2.60 | 0.54 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -16516 | 2960 | -52 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.89 | 0.36 | -- | -- | |
| ½ | 1B | -16529 | 2960 | -52 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.90 | 0.35 | -- | -- | |
| ½ | 1C | -16516 | 2960 | -57 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.89 | 0.36 | -- | -- | |
| ½ | 1D | -16529 | 2960 | -57 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.90 | 0.35 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -16507 | 2967 | -48 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.89 | 0.36 | -- | -- | |
| ½ | 1J | -16538 | 2967 | -48 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.90 | 0.36 | -- | -- | |
| ½ | 1K | -16507 | 2967 | -61 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.89 | 0.36 | -- | -- | |
| ½ | 1L | -16538 | 2967 | -61 | 0 | -- | -- | -- | -3.86 | 0.23 | 1.00 | 0.69 | 3.90 | 0.36 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -12457 | 1143 | 84 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.18 | 0.17 | 0.00 | 0.02 | |
| 0 | 1B | -12470 | 1143 | 84 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.18 | 0.17 | 0.00 | 0.02 | |
| 0 | 1C | -12457 | 1143 | 76 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.18 | 0.17 | 0.00 | 0.02 | |
| 0 | 1D | -12470 | 1143 | 76 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.18 | 0.17 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -12447 | 1148 | 89 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.18 | 0.17 | 0.00 | 0.02 | |
| 0 | 1J | -12479 | 1148 | 89 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.19 | 0.17 | 0.00 | 0.02 | |
| 0 | 1K | -12447 | 1148 | 71 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.18 | 0.17 | 0.00 | 0.02 | |
| 0 | 1L | -12479 | 1148 | 71 | 0 | -- | -- | -- | -2.91 | 0.17 | 1.00 | 0.27 | 3.19 | 0.17 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 126 Descrizione: Maschio murario n. 126 verso portico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15443 | 2675 | -160 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1B | -15446 | 2675 | -160 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1C | -15443 | 2675 | -162 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1D | -15446 | 2675 | -162 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15440 | 2677 | -158 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1J | -15449 | 2677 | -158 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1K | -15440 | 2677 | -164 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1L | -15449 | 2677 | -164 | -469 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.28 | 1.87 | 0.30 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -32158 | 3515 | 76 | 845 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1B | -32170 | 3515 | 76 | 846 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1C | -32158 | 3515 | 74 | 845 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1D | -32170 | 3515 | 74 | 846 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -32149 | 3516 | 77 | 845 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1J | -32178 | 3516 | 77 | 846 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1K | -32149 | 3516 | 72 | 845 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1L | -32178 | 3516 | 72 | 846 | -- | -- | -- | -3.35 | 0.29 | 1.00 | 0.37 | 3.17 | 0.23 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -33163 | 1476 | 253 | 587 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1B | -33171 | 1476 | 253 | 587 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1C | -33163 | 1476 | 249 | 587 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1D | -33171 | 1476 | 249 | 587 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -33157 | 1477 | 256 | 587 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1J | -33177 | 1477 | 256 | 587 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1K | -33157 | 1477 | 246 | 587 | -- | -- | -- | -3.45 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1L | -33177 | 1477 | 246 | 587 | -- | -- | -- | -3.46 | 0.30 | 1.00 | 0.15 | 3.25 | 0.09 | 0.04 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 127 Descrizione: Maschio murario n. 127 verso portico
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -20324 | 192 | 1730 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1B | -20324 | 192 | 1730 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1C | -20324 | 192 | 1728 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1D | -20324 | 192 | 1728 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -20324 | 193 | 1732 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1J | -20324 | 193 | 1732 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1K | -20324 | 193 | 1727 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1L | -20324 | 193 | 1727 | 561 | -- | -- | -- | -2.00 | 0.17 | 1.00 | 0.02 | 2.16 | 0.02 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -25132 | 961 | 98 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1B | -25137 | 961 | 98 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1C | -25132 | 961 | 94 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1D | -25137 | 961 | 94 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -25129 | 964 | 101 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1J | -25141 | 964 | 101 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1K | -25129 | 964 | 90 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1L | -25141 | 964 | 90 | 0 | -- | -- | -- | -2.65 | 0.23 | 1.00 | 0.10 | 2.65 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27748 | 3823 | -1384 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1B | -27761 | 3823 | -1384 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1C | -27748 | 3823 | -1395 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1D | -27761 | 3823 | -1395 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27739 | 3825 | -1377 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1J | -27771 | 3825 | -1377 | 0 | -- | -- | -- | -2.93 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1K | -27739 | 3825 | -1402 | 0 | -- | -- | -- | -2.92 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1L | -27771 | 3825 | -1402 | 0 | -- | -- | -- | -2.93 | 0.25 | 1.00 | 0.40 | 2.85 | 0.28 | 0.00 | 0.19 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 130 Descrizione: Maschio murario n. 130 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -18113 | 1567 | -121 | 261 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1B | -18122 | 1567 | -121 | 261 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1C | -18113 | 1567 | -123 | 261 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1D | -18122 | 1567 | -123 | 261 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18107 | 1572 | -120 | 260 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1J | -18129 | 1572 | -120 | 262 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1K | -18107 | 1572 | -125 | 260 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1L | -18129 | 1572 | -125 | 262 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.14 | 1.84 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -27174 | 2655 | -160 | -1260 | -- | -- | -- | -2.36 | 0.20 | 1.00 | 0.23 | 2.43 | 0.19 | -- | -- | |
| ½ | 1B | -27206 | 2655 | -160 | -1266 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.23 | 2.43 | 0.19 | -- | -- | |
| ½ | 1C | -27174 | 2655 | -171 | -1260 | -- | -- | -- | -2.36 | 0.20 | 1.00 | 0.23 | 2.43 | 0.19 | -- | -- | |
| ½ | 1D | -27206 | 2655 | -171 | -1266 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.23 | 2.43 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -27152 | 2672 | -153 | -1256 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.23 | 2.42 | 0.19 | -- | -- | |
| ½ | 1J | -27229 | 2672 | -153 | -1270 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.23 | 2.43 | 0.19 | -- | -- | |
| ½ | 1K | -27152 | 2672 | -178 | -1256 | -- | -- | -- | -2.35 | 0.20 | 1.00 | 0.23 | 2.42 | 0.19 | -- | -- | |
| ½ | 1L | -27229 | 2672 | -178 | -1270 | -- | -- | -- | -2.36 | 0.21 | 1.00 | 0.23 | 2.43 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -28224 | 1748 | -1 | -194 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.15 | 2.49 | 0.12 | 0.01 | 0.00 | |
| 0 | 1B | -28279 | 1748 | -1 | -201 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.15 | 2.50 | 0.12 | 0.01 | 0.00 | |
| 0 | 1C | -28224 | 1748 | -13 | -194 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.15 | 2.49 | 0.12 | 0.01 | 0.00 | |
| 0 | 1D | -28279 | 1748 | -13 | -201 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.15 | 2.50 | 0.12 | 0.01 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -28186 | 1755 | 8 | -190 | -- | -- | -- | -2.44 | 0.21 | 1.00 | 0.15 | 2.49 | 0.12 | 0.01 | 0.00 | |
| 0 | 1J | -28318 | 1755 | 8 | -205 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.15 | 2.50 | 0.12 | 0.01 | 0.00 | |
| 0 | 1K | -28186 | 1755 | -22 | -190 | -- | -- | -- | -2.44 | 0.21 | 1.00 | 0.15 | 2.49 | 0.12 | 0.01 | 0.00 | |
| 0 | 1L | -28318 | 1755 | -22 | -205 | -- | -- | -- | -2.45 | 0.21 | 1.00 | 0.15 | 2.50 | 0.12 | 0.01 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 131 Descrizione: Maschio murario n. 131 interno
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -58199 | 4173 | -1973 | -1922 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1B | -58213 | 4173 | -1973 | -1916 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1C | -58199 | 4173 | -1980 | -1922 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1D | -58213 | 4173 | -1980 | -1916 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -58189 | 4185 | -1969 | -1926 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1J | -58222 | 4185 | -1969 | -1912 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1K | -58189 | 4185 | -1985 | -1926 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1L | -58222 | 4185 | -1985 | -1912 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.11 | 1.82 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -76624 | 2541 | -1468 | -3642 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1B | -76660 | 2541 | -1468 | -3618 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1C | -76624 | 2541 | -1476 | -3642 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1D | -76660 | 2541 | -1476 | -3618 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -76599 | 2574 | -1463 | -3659 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1J | -76685 | 2574 | -1463 | -3602 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1K | -76599 | 2574 | -1482 | -3659 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1L | -76685 | 2574 | -1482 | -3602 | -- | -- | -- | -2.04 | 0.18 | 1.00 | 0.07 | 2.19 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -86196 | 3941 | -1879 | -2694 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.10 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1B | -86263 | 3941 | -1879 | -2633 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.10 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1C | -86196 | 3941 | -1889 | -2694 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.10 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1D | -86263 | 3941 | -1889 | -2633 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.10 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -86149 | 3974 | -1872 | -2737 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1J | -86310 | 3974 | -1872 | -2590 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1K | -86149 | 3974 | -1896 | -2737 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1L | -86310 | 3974 | -1896 | -2590 | -- | -- | -- | -2.29 | 0.20 | 1.00 | 0.11 | 2.38 | 0.09 | 0.02 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 133 Descrizione: Maschio murario n. 133
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -14562 | 2053 | -1193 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1B | -14566 | 2053 | -1193 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1C | -14562 | 2053 | -1195 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1D | -14566 | 2053 | -1195 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14559 | 2057 | -1191 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1J | -14568 | 2057 | -1191 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1K | -14559 | 2057 | -1196 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1L | -14568 | 2057 | -1196 | 0 | -- | -- | -- | -1.58 | 0.14 | 1.00 | 0.22 | 1.85 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17671 | 2779 | -318 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1B | -17676 | 2779 | -318 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1C | -17671 | 2779 | -320 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1D | -17676 | 2779 | -320 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17667 | 2783 | -316 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1J | -17679 | 2783 | -316 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1K | -17667 | 2783 | -322 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1L | -17679 | 2783 | -322 | 0 | -- | -- | -- | -1.92 | 0.17 | 1.00 | 0.30 | 2.10 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20201 | 3409 | 25 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1B | -20206 | 3409 | 25 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1C | -20201 | 3409 | 23 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1D | -20206 | 3409 | 23 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20197 | 3414 | 27 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1J | -20209 | 3414 | 27 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1K | -20197 | 3414 | 21 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1L | -20209 | 3414 | 21 | 0 | -- | -- | -- | -2.20 | 0.19 | 1.00 | 0.37 | 2.31 | 0.32 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 134 Descrizione: Maschio murario n. 134
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -18309 | 732 | -2189 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.93 | 0.07 | -- | -- | |
| l | 1B | -18316 | 732 | -2189 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.94 | 0.07 | -- | -- | |
| l | 1C | -18309 | 732 | -2190 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.93 | 0.07 | -- | -- | |
| l | 1D | -18316 | 732 | -2190 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.94 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18305 | 732 | -2188 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.93 | 0.07 | -- | -- | |
| l | 1J | -18320 | 732 | -2188 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.94 | 0.07 | -- | -- | |
| l | 1K | -18305 | 732 | -2191 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.93 | 0.07 | -- | -- | |
| l | 1L | -18320 | 732 | -2191 | 0 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.07 | 1.94 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -20559 | 1280 | -230 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1B | -20568 | 1280 | -230 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1C | -20559 | 1280 | -231 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1D | -20568 | 1280 | -231 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -20553 | 1282 | -229 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1J | -20575 | 1282 | -229 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1K | -20553 | 1282 | -232 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1L | -20575 | 1282 | -232 | 0 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.12 | 2.09 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -21064 | 851 | 1511 | 0 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1B | -21076 | 851 | 1511 | 0 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1C | -21064 | 851 | 1508 | 0 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1D | -21076 | 851 | 1508 | 0 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21055 | 856 | 1513 | 0 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1J | -21085 | 856 | 1513 | 0 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1K | -21055 | 856 | 1506 | 0 | -- | -- | -- | -1.95 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1L | -21085 | 856 | 1506 | 0 | -- | -- | -- | -1.96 | 0.17 | 1.00 | 0.08 | 2.13 | 0.07 | 0.00 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 390.00 cm

| P o s | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -35681 | 5069 | -3985 | 2517 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1B | -35710 | 5069 | -3985 | 2512 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1C | -35681 | 5069 | -3992 | 2517 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1D | -35710 | 5069 | -3992 | 2512 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -35661 | 5075 | -3981 | 2520 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1J | -35730 | 5075 | -3981 | 2509 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1K | -35661 | 5075 | -3997 | 2520 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1L | -35730 | 5075 | -3997 | 2509 | -- | -- | -- | -1.70 | 0.15 | 1.00 | 0.24 | 1.94 | 0.25 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -43732 | 6427 | -896 | -1918 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.31 | 2.22 | 0.28 | -- | -- | |
| ½ | 1B | -43762 | 6427 | -896 | -1917 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.31 | 2.23 | 0.28 | -- | -- | |
| ½ | 1C | -43732 | 6427 | -917 | -1918 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.31 | 2.22 | 0.28 | -- | -- | |
| ½ | 1D | -43762 | 6427 | -917 | -1917 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.31 | 2.23 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -43712 | 6455 | -881 | -1920 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.31 | 2.22 | 0.28 | -- | -- | |
| ½ | 1J | -43783 | 6455 | -881 | -1916 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.31 | 2.23 | 0.28 | -- | -- | |
| ½ | 1K | -43712 | 6455 | -931 | -1920 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.31 | 2.22 | 0.28 | -- | -- | |
| ½ | 1L | -43783 | 6455 | -931 | -1916 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.31 | 2.23 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -44057 | 3100 | 3607 | -2885 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.26 | |
| 0 | 1B | -44067 | 3100 | 3607 | -2882 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.26 | |
| 0 | 1C | -44057 | 3100 | 3561 | -2885 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.26 | |
| 0 | 1D | -44067 | 3100 | 3561 | -2882 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.26 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -44050 | 3116 | 3639 | -2887 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.26 | |
| 0 | 1J | -44074 | 3116 | 3639 | -2879 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.26 | |
| 0 | 1K | -44050 | 3116 | 3529 | -2887 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.25 | |
| 0 | 1L | -44074 | 3116 | 3529 | -2879 | -- | -- | -- | -2.09 | 0.18 | 1.00 | 0.15 | 2.23 | 0.13 | 0.06 | 0.25 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **9** Tabella: **Tabella muri interni**
Descrizione: **Muri 2p-3p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 390.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12813 | 2361 | -1440 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1B | -12813 | 2361 | -1440 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1C | -12813 | 2361 | -1441 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1D | -12813 | 2361 | -1441 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -12812 | 2361 | -1439 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1J | -12814 | 2361 | -1439 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1K | -12812 | 2361 | -1441 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1L | -12814 | 2361 | -1441 | -28 | -- | -- | -- | -2.33 | 0.20 | 1.00 | 0.43 | 2.41 | 0.36 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -34868 | 2061 | -742 | -500 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1B | -34871 | 2061 | -742 | -501 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1C | -34868 | 2061 | -748 | -500 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1D | -34871 | 2061 | -748 | -501 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -34865 | 2064 | -738 | -500 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1J | -34874 | 2064 | -738 | -501 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1K | -34865 | 2064 | -752 | -500 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1L | -34874 | 2064 | -752 | -501 | -- | -- | -- | -2.19 | 0.19 | 1.00 | 0.13 | 2.30 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20658 | 919 | 952 | 69 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1B | -20660 | 919 | 952 | 68 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1C | -20658 | 919 | 948 | 69 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1D | -20660 | 919 | 948 | 68 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20657 | 921 | 956 | 69 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1J | -20662 | 921 | 956 | 68 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1K | -20657 | 921 | 944 | 69 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1L | -20662 | 921 | 944 | 68 | -- | -- | -- | -2.60 | 0.23 | 1.00 | 0.12 | 2.61 | 0.09 | 0.01 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 1 Descrizione: Maschio murario n. 1 su corso valdocco
altezza calcolata: 410.00 cm

| Ps | c.c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3801 | 262 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1B | -3803 | 262 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1C | -3801 | 262 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1D | -3803 | 262 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3800 | 263 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1J | -3805 | 263 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1K | -3800 | 263 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1L | -3805 | 263 | -232 | 0 | -- | -- | -- | -0.62 | 0.05 | 1.00 | 0.04 | 1.13 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -15186 | 1139 | -81 | -187 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1B | -15192 | 1139 | -81 | -188 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1C | -15186 | 1139 | -81 | -187 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1D | -15192 | 1139 | -81 | -188 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -15183 | 1139 | -81 | -187 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1J | -15195 | 1139 | -81 | -188 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1K | -15183 | 1139 | -82 | -187 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1L | -15195 | 1139 | -82 | -188 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.09 | 1.54 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -7308 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1B | -7309 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1C | -7308 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1D | -7309 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -7307 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1J | -7309 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1K | -7307 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1L | -7309 | 852 | -13 | 0 | -- | -- | -- | -1.20 | 0.10 | 1.00 | 0.14 | 1.56 | 0.18 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 2 Descrizione: Maschio murario n. 2 su corso Valdocco
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -23087 | 6344 | -16341 | -2041 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1B | -23094 | 6344 | -16341 | -2042 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1C | -23087 | 6344 | -16343 | -2041 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1D | -23094 | 6344 | -16343 | -2042 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -23083 | 6348 | -16340 | -2039 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1J | -23098 | 6348 | -16340 | -2043 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1K | -23083 | 6348 | -16345 | -2039 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1L | -23098 | 6348 | -16345 | -2043 | -- | -- | -- | -0.81 | 0.05 | 1.00 | 0.22 | 1.60 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -61629 | 5133 | -12356 | -7781 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1B | -61657 | 5133 | -12356 | -7785 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1C | -61629 | 5133 | -12358 | -7781 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1D | -61657 | 5133 | -12358 | -7785 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -61610 | 5135 | -12354 | -7779 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1J | -61677 | 5135 | -12354 | -7787 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1K | -61610 | 5135 | -12360 | -7779 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1L | -61677 | 5135 | -12360 | -7787 | -- | -- | -- | -1.08 | 0.06 | 1.00 | 0.09 | 1.81 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -40088 | 3700 | 6425 | -1103 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1B | -40100 | 3700 | 6425 | -1104 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1C | -40088 | 3700 | 6423 | -1103 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1D | -40100 | 3700 | 6423 | -1104 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -40079 | 3701 | 6426 | -1103 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1J | -40109 | 3701 | 6426 | -1104 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1K | -40079 | 3701 | 6422 | -1103 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1L | -40109 | 3701 | 6422 | -1104 | -- | -- | -- | -1.40 | 0.08 | 1.00 | 0.13 | 2.05 | 0.13 | 0.02 | 0.34 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 3 Descrizione: Maschio murario n. 3 su corso valdocco
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -17788 | 2881 | -8013 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1B | -17793 | 2881 | -8013 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1C | -17788 | 2881 | -8016 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1D | -17793 | 2881 | -8016 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -17785 | 2884 | -8011 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1J | -17796 | 2884 | -8011 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1K | -17785 | 2884 | -8018 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1L | -17796 | 2884 | -8018 | 209 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.26 | 1.86 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -33200 | 4331 | -4076 | 994 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1B | -33220 | 4331 | -4076 | 994 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1C | -33200 | 4331 | -4078 | 994 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1D | -33220 | 4331 | -4078 | 994 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -33185 | 4333 | -4075 | 995 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1J | -33235 | 4333 | -4075 | 994 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1K | -33185 | 4333 | -4079 | 995 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1L | -33235 | 4333 | -4079 | 994 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.20 | 1.78 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20198 | 4172 | 5724 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1B | -20199 | 4172 | 5724 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1C | -20198 | 4172 | 5722 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1D | -20199 | 4172 | 5722 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20197 | 4173 | 5725 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1J | -20200 | 4173 | 5725 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1K | -20197 | 4173 | 5721 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1L | -20200 | 4173 | 5721 | -192 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.38 | 2.03 | 0.37 | 0.02 | 0.87 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 4 Descrizione: Maschio murario n. 4 su corso valdocco
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | kg/cm² | | | kg/cm² | | | | | |
| l | 1A | -21834 | 9407 | -15398 | 1400 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1B | -21843 | 9407 | -15398 | 1401 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1C | -21834 | 9407 | -15410 | 1400 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1D | -21843 | 9407 | -15410 | 1401 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -21827 | 9412 | -15389 | 1400 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1J | -21850 | 9412 | -15389 | 1401 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1K | -21827 | 9412 | -15418 | 1400 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1L | -21850 | 9412 | -15418 | 1401 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.32 | 1.55 | 0.41 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -63688 | 4053 | -8546 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1B | -63728 | 4053 | -8546 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1C | -63688 | 4053 | -8551 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1D | -63728 | 4053 | -8551 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -63660 | 4053 | -8543 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1J | -63755 | 4053 | -8543 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1K | -63660 | 4053 | -8555 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1L | -63755 | 4053 | -8555 | 5393 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.07 | 1.80 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -41495 | 3992 | 10076 | -306 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1B | -41516 | 3992 | 10076 | -306 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1C | -41495 | 3992 | 10074 | -306 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1D | -41516 | 3992 | 10074 | -306 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -41481 | 3993 | 10078 | -305 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1J | -41530 | 3993 | 10078 | -307 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1K | -41481 | 3993 | 10072 | -305 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1L | -41530 | 3993 | 10072 | -307 | -- | -- | -- | -1.39 | 0.08 | 1.00 | 0.13 | 2.04 | 0.13 | 0.01 | 0.51 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 5 Descrizione: Maschio murario n. 5 su corso Valdocco
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15888 | 3685 | -7529 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1B | -15892 | 3685 | -7529 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1C | -15888 | 3685 | -7538 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1D | -15892 | 3685 | -7538 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15886 | 3686 | -7523 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1J | -15895 | 3686 | -7523 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1K | -15886 | 3686 | -7544 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1L | -15895 | 3686 | -7544 | 190 | -- | -- | -- | -1.19 | 0.10 | 1.00 | 0.28 | 1.55 | 0.36 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -34436 | 3107 | -3051 | 1962 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1B | -34457 | 3107 | -3051 | 1963 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1C | -34436 | 3107 | -3054 | 1962 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1D | -34457 | 3107 | -3054 | 1963 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -34421 | 3108 | -3048 | 1962 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1J | -34472 | 3108 | -3048 | 1963 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1K | -34421 | 3108 | -3056 | 1962 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1L | -34472 | 3108 | -3056 | 1963 | -- | -- | -- | -1.29 | 0.11 | 1.00 | 0.12 | 1.63 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -21547 | 3655 | 6272 | -186 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1B | -21553 | 3655 | 6272 | -185 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1C | -21547 | 3655 | 6269 | -186 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1D | -21553 | 3655 | 6269 | -185 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21543 | 3656 | 6274 | -186 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1J | -21557 | 3656 | 6274 | -184 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1K | -21543 | 3656 | 6267 | -186 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1L | -21557 | 3656 | 6267 | -184 | -- | -- | -- | -1.61 | 0.14 | 1.00 | 0.27 | 1.87 | 0.29 | 0.01 | 0.87 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 6 Descrizione: Maschio murario n. 6 su corso Valdocco
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -19411 | 7663 | -12879 | 2140 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1B | -19425 | 7663 | -12879 | 2136 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1C | -19411 | 7663 | -12921 | 2140 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1D | -19425 | 7663 | -12921 | 2136 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -19401 | 7665 | -12849 | 2142 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1J | -19434 | 7665 | -12849 | 2134 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1K | -19401 | 7665 | -12950 | 2142 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1L | -19434 | 7665 | -12950 | 2134 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.25 | 1.48 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -58509 | 5335 | -7471 | 7069 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1B | -58546 | 5335 | -7471 | 7066 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1C | -58509 | 5335 | -7509 | 7069 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1D | -58546 | 5335 | -7509 | 7066 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -58482 | 5338 | -7444 | 7072 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1J | -58573 | 5338 | -7444 | 7063 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1K | -58482 | 5338 | -7535 | 7072 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1L | -58573 | 5338 | -7535 | 7063 | -- | -- | -- | -0.97 | 0.06 | 1.00 | 0.09 | 1.73 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -39025 | 3454 | 8057 | -166 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1B | -39052 | 3454 | 8057 | -159 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1C | -39025 | 3454 | 8025 | -166 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1D | -39052 | 3454 | 8025 | -159 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -39006 | 3456 | 8079 | -171 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1J | -39072 | 3456 | 8079 | -155 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1K | -39006 | 3456 | 8003 | -171 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1L | -39072 | 3456 | 8003 | -155 | -- | -- | -- | -1.29 | 0.08 | 1.00 | 0.11 | 1.97 | 0.12 | 0.00 | 0.43 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 7 Descrizione: Maschio murario n. 7 su corso Valdocco
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -10722 | 2662 | -4150 | 1038 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.19 | 1.23 | 0.31 | -- | -- | |
| l | 1B | -10743 | 2662 | -4150 | 1038 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.19 | 1.23 | 0.31 | -- | -- | |
| l | 1C | -10722 | 2662 | -4179 | 1038 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.19 | 1.23 | 0.31 | -- | -- | |
| l | 1D | -10743 | 2662 | -4179 | 1038 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.19 | 1.23 | 0.31 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -10707 | 2668 | -4130 | 1039 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.19 | 1.23 | 0.31 | -- | -- | |
| l | 1J | -10758 | 2668 | -4130 | 1037 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.19 | 1.24 | 0.31 | -- | -- | |
| l | 1K | -10707 | 2668 | -4200 | 1039 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.19 | 1.23 | 0.31 | -- | -- | |
| l | 1L | -10758 | 2668 | -4200 | 1037 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.19 | 1.24 | 0.31 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -29004 | 4962 | -1851 | 3676 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.18 | 1.44 | 0.25 | -- | -- | |
| ½ | 1B | -29051 | 4962 | -1851 | 3671 | -- | -- | -- | -1.04 | 0.09 | 1.00 | 0.18 | 1.44 | 0.25 | -- | -- | |
| ½ | 1C | -29004 | 4962 | -1876 | 3676 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.18 | 1.44 | 0.25 | -- | -- | |
| ½ | 1D | -29051 | 4962 | -1876 | 3671 | -- | -- | -- | -1.04 | 0.09 | 1.00 | 0.18 | 1.44 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -28972 | 4968 | -1833 | 3679 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.18 | 1.43 | 0.25 | -- | -- | |
| ½ | 1J | -29083 | 4968 | -1833 | 3668 | -- | -- | -- | -1.04 | 0.09 | 1.00 | 0.18 | 1.44 | 0.25 | -- | -- | |
| ½ | 1K | -28972 | 4968 | -1894 | 3679 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.18 | 1.43 | 0.25 | -- | -- | |
| ½ | 1L | -29083 | 4968 | -1894 | 3668 | -- | -- | -- | -1.04 | 0.09 | 1.00 | 0.18 | 1.44 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -19060 | 2482 | 3125 | -809 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.48 | |
| 0 | 1B | -19067 | 2482 | 3125 | -808 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.48 | |
| 0 | 1C | -19060 | 2482 | 3097 | -809 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.47 | |
| 0 | 1D | -19067 | 2482 | 3097 | -808 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.47 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -19055 | 2485 | 3144 | -810 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.48 | |
| 0 | 1J | -19072 | 2485 | 3144 | -807 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.48 | |
| 0 | 1K | -19055 | 2485 | 3078 | -810 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.47 | |
| 0 | 1L | -19072 | 2485 | 3078 | -807 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.18 | 1.68 | 0.21 | 0.06 | 0.47 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 8 Descrizione: Maschio murario n. 8 su corso valdocco
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6432 | 6239 | -89 | 3 | -- | -- | -- | -0.21 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1B | -6456 | 6239 | -89 | 1 | -- | -- | -- | -0.22 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1C | -6432 | 6239 | -102 | 3 | -- | -- | -- | -0.21 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1D | -6456 | 6239 | -102 | 1 | -- | -- | -- | -0.22 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -6416 | 6256 | -81 | 4 | -- | -- | -- | -0.21 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1J | -6473 | 6256 | -81 | -0 | -- | -- | -- | -0.22 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1K | -6416 | 6256 | -111 | 4 | -- | -- | -- | -0.21 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1L | -6473 | 6256 | -111 | -0 | -- | -- | -- | -0.22 | 0.01 | 1.00 | 0.21 | 1.16 | 0.36 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -41977 | 7654 | -563 | -2189 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.52 | 0.17 | -- | -- | |
| ½ | 1B | -42072 | 7654 | -563 | -2195 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| ½ | 1C | -41977 | 7654 | -595 | -2189 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.52 | 0.17 | -- | -- | |
| ½ | 1D | -42072 | 7654 | -595 | -2195 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -41912 | 7665 | -541 | -2185 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.52 | 0.17 | -- | -- | |
| ½ | 1J | -42137 | 7665 | -541 | -2200 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| ½ | 1K | -41912 | 7665 | -618 | -2185 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.52 | 0.17 | -- | -- | |
| ½ | 1L | -42137 | 7665 | -618 | -2200 | -- | -- | -- | -0.70 | 0.04 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -30720 | 2363 | -267 | -788 | -- | -- | -- | -1.02 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1B | -30740 | 2363 | -267 | -788 | -- | -- | -- | -1.02 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1C | -30720 | 2363 | -290 | -788 | -- | -- | -- | -1.02 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1D | -30740 | 2363 | -290 | -788 | -- | -- | -- | -1.02 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -30706 | 2369 | -252 | -789 | -- | -- | -- | -1.02 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1J | -30754 | 2369 | -252 | -787 | -- | -- | -- | -1.03 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1K | -30706 | 2369 | -306 | -789 | -- | -- | -- | -1.02 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1L | -30754 | 2369 | -306 | -787 | -- | -- | -- | -1.03 | 0.06 | 1.00 | 0.08 | 1.77 | 0.09 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 9 Descrizione: Maschio murario n. 9 su corso valdocco
altezza calcolata: 410.00 cm

| Pos | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1740 | 1085 | 13 | 0 | -- | -- | -- | -0.21 | 0.02 | 1.00 | 0.13 | 0.82 | 0.32 | -- | -- | |
| l | 1B | -1764 | 1085 | 13 | 0 | -- | -- | -- | -0.21 | 0.02 | 1.00 | 0.13 | 0.82 | 0.32 | -- | -- | |
| l | 1C | -1740 | 1085 | 7 | 0 | -- | -- | -- | -0.21 | 0.02 | 1.00 | 0.13 | 0.82 | 0.32 | -- | -- | |
| l | 1D | -1764 | 1085 | 7 | 0 | -- | -- | -- | -0.21 | 0.02 | 1.00 | 0.13 | 0.82 | 0.32 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1723 | 1094 | 17 | 0 | -- | -- | -- | -0.21 | 0.02 | 1.00 | 0.13 | 0.82 | 0.33 | -- | -- | |
| l | 1J | -1781 | 1094 | 17 | 0 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.13 | 0.82 | 0.32 | -- | -- | |
| l | 1K | -1723 | 1094 | 3 | 0 | -- | -- | -- | -0.21 | 0.02 | 1.00 | 0.13 | 0.82 | 0.33 | -- | -- | |
| l | 1L | -1781 | 1094 | 3 | 0 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.13 | 0.82 | 0.32 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -6662 | 4440 | 89 | -160 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.95 | 0.54 | -- | -- | |
| ½ | 1B | -6703 | 4440 | 89 | -158 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.95 | 0.54 | -- | -- | |
| ½ | 1C | -6662 | 4440 | 86 | -160 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.95 | 0.54 | -- | -- | |
| ½ | 1D | -6703 | 4440 | 86 | -158 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.95 | 0.54 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -6634 | 4450 | 91 | -161 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.94 | 0.54 | -- | -- | |
| ½ | 1J | -6731 | 4450 | 91 | -157 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.95 | 0.54 | -- | -- | |
| ½ | 1K | -6634 | 4450 | 85 | -161 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.94 | 0.54 | -- | -- | |
| ½ | 1L | -6731 | 4450 | 85 | -157 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.25 | 0.95 | 0.54 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -8864 | 1284 | -261 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1B | -8867 | 1284 | -261 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1C | -8864 | 1284 | -263 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1D | -8867 | 1284 | -263 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -8862 | 1289 | -260 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1J | -8869 | 1289 | -260 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1K | -8862 | 1289 | -263 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1L | -8869 | 1289 | -263 | 0 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.16 | 1.47 | 0.21 | 0.00 | 0.08 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6129 | 1493 | -7 | -476 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1B | -6144 | 1493 | -7 | -472 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1C | -6129 | 1493 | -9 | -476 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1D | -6144 | 1493 | -9 | -472 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6119 | 1494 | -6 | -479 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1J | -6155 | 1494 | -6 | -469 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1K | -6119 | 1494 | -9 | -479 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1L | -6155 | 1494 | -9 | -469 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.16 | 1.16 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -24230 | 1770 | 92 | 274 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1B | -24263 | 1770 | 92 | 279 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1C | -24230 | 1770 | 88 | 274 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1D | -24263 | 1770 | 88 | 279 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -24208 | 1779 | 95 | 270 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1J | -24286 | 1779 | 95 | 282 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1K | -24208 | 1779 | 85 | 270 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1L | -24286 | 1779 | 85 | 282 | -- | -- | -- | -1.31 | 0.11 | 1.00 | 0.10 | 1.64 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -18353 | 1539 | 164 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.15 | 0.15 | 0.01 | 0.03 | |
| 0 | 1B | -18360 | 1539 | 164 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.15 | 0.15 | 0.01 | 0.03 | |
| 0 | 1C | -18353 | 1539 | 161 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.15 | 0.15 | 0.01 | 0.03 | |
| 0 | 1D | -18360 | 1539 | 161 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.15 | 0.15 | 0.01 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -18348 | 1543 | 167 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.14 | 0.16 | 0.01 | 0.03 | |
| 0 | 1J | -18365 | 1543 | 167 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.15 | 0.16 | 0.01 | 0.03 | |
| 0 | 1K | -18348 | 1543 | 158 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.14 | 0.16 | 0.01 | 0.03 | |
| 0 | 1L | -18365 | 1543 | 158 | -84 | -- | -- | -- | -1.98 | 0.17 | 1.00 | 0.17 | 2.15 | 0.16 | 0.01 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 25 Descrizione: Maschio murario n. 25 su Cortile
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -6415 | 20 | -946 | 0 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1B | -6449 | 20 | -946 | 0 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1C | -6415 | 20 | -949 | 0 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1D | -6449 | 20 | -949 | 0 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -6391 | 20 | -944 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1J | -6473 | 20 | -944 | 0 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1K | -6391 | 20 | -952 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1L | -6473 | 20 | -952 | 0 | -- | -- | -- | -0.64 | 0.04 | 1.00 | 0.00 | 1.48 | 0.00 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -33810 | 2320 | -661 | 0 | -- | -- | -- | -1.68 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1B | -33895 | 2320 | -661 | 0 | -- | -- | -- | -1.68 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1C | -33810 | 2320 | -675 | 0 | -- | -- | -- | -1.68 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1D | -33895 | 2320 | -675 | 0 | -- | -- | -- | -1.68 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -33752 | 2329 | -651 | 0 | -- | -- | -- | -1.67 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1J | -33954 | 2329 | -651 | 0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1K | -33752 | 2329 | -685 | 0 | -- | -- | -- | -1.67 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1L | -33954 | 2329 | -685 | 0 | -- | -- | -- | -1.69 | 0.10 | 1.00 | 0.12 | 2.26 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -20085 | 1160 | 1011 | 0 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.12 | 2.50 | 0.09 | 0.00 | 0.15 | |
| 0 | 1B | -20115 | 1160 | 1011 | 0 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.12 | 2.50 | 0.09 | 0.00 | 0.15 | |
| 0 | 1C | -20085 | 1160 | 999 | 0 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.12 | 2.50 | 0.09 | 0.00 | 0.14 | |
| 0 | 1D | -20115 | 1160 | 999 | 0 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.12 | 2.50 | 0.09 | 0.00 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20063 | 1164 | 1019 | 0 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.12 | 2.49 | 0.09 | 0.00 | 0.15 | |
| 0 | 1J | -20137 | 1164 | 1019 | 0 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.12 | 2.50 | 0.09 | 0.00 | 0.15 | |
| 0 | 1K | -20063 | 1164 | 990 | 0 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.12 | 2.49 | 0.09 | 0.00 | 0.14 | |
| 0 | 1L | -20137 | 1164 | 990 | 0 | -- | -- | -- | -2.00 | 0.12 | 1.00 | 0.12 | 2.50 | 0.09 | 0.00 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 26 Descrizione: Maschio murario n. 26 su Cortile
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -24047 | 5280 | -2981 | -3075 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1B | -24073 | 5280 | -2981 | -3084 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1C | -24047 | 5280 | -2986 | -3075 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1D | -24073 | 5280 | -2986 | -3084 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -24028 | 5281 | -2977 | -3069 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1J | -24091 | 5281 | -2977 | -3090 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1K | -24028 | 5281 | -2989 | -3069 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1L | -24091 | 5281 | -2989 | -3090 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.21 | 1.37 | 0.30 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -80286 | 6957 | -2301 | -10955 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1B | -80342 | 6957 | -2301 | -10973 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1C | -80286 | 6957 | -2314 | -10955 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1D | -80342 | 6957 | -2314 | -10973 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -80247 | 6971 | -2291 | -10942 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1J | -80382 | 6971 | -2291 | -10986 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1K | -80247 | 6971 | -2324 | -10942 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1L | -80382 | 6971 | -2324 | -10986 | -- | -- | -- | -1.59 | 0.14 | 1.00 | 0.14 | 1.85 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -48118 | 2476 | 1906 | -4171 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1B | -48129 | 2476 | 1906 | -4173 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1C | -48118 | 2476 | 1884 | -4171 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1D | -48129 | 2476 | 1884 | -4173 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -48111 | 2484 | 1922 | -4169 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1J | -48137 | 2484 | 1922 | -4175 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1K | -48111 | 2484 | 1868 | -4169 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1L | -48137 | 2484 | 1868 | -4175 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.10 | 2.09 | 0.09 | 0.06 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 27 Descrizione: Maschio murario n. 27 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3465 | 135 | -864 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1B | -3469 | 135 | -864 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1C | -3465 | 135 | -865 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1D | -3469 | 135 | -865 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3462 | 135 | -864 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1J | -3472 | 135 | -864 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1K | -3462 | 135 | -866 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1L | -3472 | 135 | -866 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.02 | 1.06 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17562 | 986 | -1150 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1B | -17568 | 986 | -1150 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1C | -17562 | 986 | -1153 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1D | -17568 | 986 | -1153 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17558 | 987 | -1148 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1J | -17572 | 987 | -1148 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1K | -17558 | 987 | -1155 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1L | -17572 | 987 | -1155 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.08 | 1.67 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -10841 | 493 | 1173 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1B | -10847 | 493 | 1173 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1C | -10841 | 493 | 1171 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1D | -10847 | 493 | 1171 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -10837 | 494 | 1175 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1J | -10851 | 494 | 1175 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1K | -10837 | 494 | 1170 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1L | -10851 | 494 | 1170 | 0 | -- | -- | -- | -1.66 | 0.14 | 1.00 | 0.08 | 1.90 | 0.08 | 0.00 | 0.37 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 28 Descrizione: Maschio murario n. 28 su cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -18922 | 2082 | -2423 | 2469 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1B | -18926 | 2082 | -2423 | 2469 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1C | -18922 | 2082 | -2425 | 2469 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1D | -18926 | 2082 | -2425 | 2469 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18919 | 2083 | -2421 | 2468 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1J | -18928 | 2083 | -2421 | 2469 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1K | -18919 | 2083 | -2426 | 2468 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1L | -18928 | 2083 | -2426 | 2469 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.12 | 1.47 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -53738 | 3339 | -1393 | 1363 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1B | -53751 | 3339 | -1393 | 1360 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1C | -53738 | 3339 | -1396 | 1363 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1D | -53751 | 3339 | -1396 | 1360 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -53729 | 3341 | -1390 | 1365 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1J | -53760 | 3341 | -1390 | 1358 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1K | -53729 | 3341 | -1398 | 1365 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1L | -53760 | 3341 | -1398 | 1358 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.10 | 1.81 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -33374 | 3628 | 1823 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1B | -33382 | 3628 | 1823 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1C | -33374 | 3628 | 1818 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1D | -33382 | 3628 | 1818 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -33368 | 3630 | 1826 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1J | -33388 | 3630 | 1826 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1K | -33368 | 3630 | 1815 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1L | -33388 | 3630 | 1815 | -1213 | -- | -- | -- | -1.90 | 0.17 | 1.00 | 0.21 | 2.09 | 0.20 | 0.04 | 0.19 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 29 Descrizione: Maschio murario n. 29 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2938 | 629 | -51 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1B | -2940 | 629 | -51 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1C | -2938 | 629 | -51 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1D | -2940 | 629 | -51 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2937 | 630 | -50 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1J | -2942 | 630 | -50 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1K | -2937 | 630 | -52 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1L | -2942 | 630 | -52 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -16141 | 2654 | -49 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1B | -16144 | 2654 | -49 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1C | -16141 | 2654 | -50 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1D | -16144 | 2654 | -50 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -16139 | 2654 | -47 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1J | -16146 | 2654 | -47 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1K | -16139 | 2654 | -51 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1L | -16146 | 2654 | -51 | 0 | -- | -- | -- | -1.52 | 0.13 | 1.00 | 0.25 | 1.80 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -12263 | 425 | 19 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.39 | 0.07 | 0.00 | 0.01 | |
| 0 | 1B | -12269 | 425 | 19 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.40 | 0.07 | 0.00 | 0.01 | |
| 0 | 1C | -12263 | 425 | 18 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.39 | 0.07 | 0.00 | 0.01 | |
| 0 | 1D | -12269 | 425 | 18 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.40 | 0.07 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -12259 | 427 | 20 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.39 | 0.07 | 0.00 | 0.01 | |
| 0 | 1J | -12273 | 427 | 20 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.40 | 0.07 | 0.00 | 0.01 | |
| 0 | 1K | -12259 | 427 | 17 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.39 | 0.07 | 0.00 | 0.00 | |
| 0 | 1L | -12273 | 427 | 17 | 0 | -- | -- | -- | -2.31 | 0.20 | 1.00 | 0.08 | 2.40 | 0.07 | 0.00 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -7330 | 1013 | 109 | -1260 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.09 | 1.17 | 0.16 | -- | -- | |
| l | 1B | -7345 | 1013 | 109 | -1262 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.09 | 1.18 | 0.16 | -- | -- | |
| l | 1C | -7330 | 1013 | 107 | -1260 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.09 | 1.17 | 0.16 | -- | -- | |
| l | 1D | -7345 | 1013 | 107 | -1262 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.09 | 1.18 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -7319 | 1017 | 110 | -1259 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.10 | 1.17 | 0.16 | -- | -- | |
| l | 1J | -7356 | 1017 | 110 | -1262 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.10 | 1.18 | 0.16 | -- | -- | |
| l | 1K | -7319 | 1017 | 106 | -1259 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.10 | 1.17 | 0.16 | -- | -- | |
| l | 1L | -7356 | 1017 | 106 | -1262 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.10 | 1.18 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -55098 | 9418 | -226 | -3847 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1B | -55131 | 9418 | -226 | -3848 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1C | -55098 | 9418 | -230 | -3847 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1D | -55131 | 9418 | -230 | -3848 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -55075 | 9433 | -223 | -3846 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1J | -55154 | 9433 | -223 | -3849 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1K | -55075 | 9433 | -232 | -3846 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1L | -55154 | 9433 | -232 | -3849 | -- | -- | -- | -1.67 | 0.15 | 1.00 | 0.29 | 1.91 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14347 | 1473 | -27 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1B | -14357 | 1473 | -27 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1C | -14347 | 1473 | -28 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1D | -14357 | 1473 | -28 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14340 | 1475 | -26 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1J | -14365 | 1475 | -26 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1K | -14340 | 1475 | -28 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1L | -14365 | 1475 | -28 | 0 | -- | -- | -- | -1.34 | 0.12 | 1.00 | 0.14 | 1.67 | 0.17 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 31 Descrizione: Maschio murario n. 31 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3444 | 548 | 31 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1B | -3453 | 548 | 31 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1C | -3444 | 548 | 31 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1D | -3453 | 548 | 31 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3437 | 550 | 32 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1J | -3460 | 550 | 32 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1K | -3437 | 550 | 31 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1L | -3460 | 550 | 31 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.06 | 0.93 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -30735 | 1448 | -208 | -7 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1B | -30764 | 1448 | -208 | -6 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1C | -30735 | 1448 | -210 | -7 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1D | -30764 | 1448 | -210 | -6 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -30714 | 1456 | -207 | -7 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1J | -30785 | 1456 | -207 | -6 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1K | -30714 | 1456 | -212 | -7 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1L | -30785 | 1456 | -212 | -6 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1B | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1C | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1D | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1J | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1K | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1L | -5873 | 266 | -99 | 0 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.05 | 1.41 | 0.06 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 32 Descrizione: Maschio murario n. 32 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3918 | 367 | 2 | 1 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1B | -3926 | 367 | 2 | 0 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1C | -3918 | 367 | 1 | 1 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1D | -3926 | 367 | 1 | 0 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3913 | 369 | 3 | 1 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1J | -3931 | 369 | 3 | -0 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1K | -3913 | 369 | 1 | 1 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1L | -3931 | 369 | 1 | -0 | -- | -- | -- | -0.40 | 0.04 | 1.00 | 0.04 | 0.96 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -20951 | 2192 | -110 | -92 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1B | -20967 | 2192 | -110 | -93 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1C | -20951 | 2192 | -113 | -92 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1D | -20967 | 2192 | -113 | -93 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -20939 | 2200 | -108 | -92 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1J | -20979 | 2200 | -108 | -94 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1K | -20939 | 2200 | -115 | -92 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1L | -20979 | 2200 | -115 | -94 | -- | -- | -- | -1.08 | 0.09 | 1.00 | 0.11 | 1.47 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -10976 | 804 | -3 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1B | -10981 | 804 | -3 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1C | -10976 | 804 | -4 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1D | -10981 | 804 | -4 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -10973 | 807 | -2 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1J | -10984 | 807 | -2 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1K | -10973 | 807 | -5 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1L | -10984 | 807 | -5 | 412 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.08 | 1.51 | 0.11 | 0.07 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 33 Descrizione: Maschio murario n. 33 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -9785 | 2158 | -2927 | 431 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.22 | 1.42 | 0.32 | -- | -- | |
| l | 1B | -9786 | 2158 | -2927 | 432 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.22 | 1.42 | 0.32 | -- | -- | |
| l | 1C | -9785 | 2158 | -2929 | 431 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.22 | 1.42 | 0.32 | -- | -- | |
| l | 1D | -9786 | 2158 | -2929 | 432 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.22 | 1.42 | 0.32 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -9784 | 2160 | -2926 | 431 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.23 | 1.42 | 0.32 | -- | -- | |
| l | 1J | -9786 | 2160 | -2926 | 432 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.23 | 1.42 | 0.32 | -- | -- | |
| l | 1K | -9784 | 2160 | -2930 | 431 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.23 | 1.42 | 0.32 | -- | -- | |
| l | 1L | -9786 | 2160 | -2930 | 432 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.23 | 1.42 | 0.32 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -25578 | 3363 | -2167 | 991 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1B | -25585 | 3363 | -2167 | 991 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1C | -25578 | 3363 | -2168 | 991 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1D | -25585 | 3363 | -2168 | 991 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -25573 | 3364 | -2167 | 990 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1J | -25589 | 3364 | -2167 | 992 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1K | -25573 | 3364 | -2169 | 990 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1L | -25589 | 3364 | -2169 | 992 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.18 | 1.66 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -15812 | 3353 | 2506 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1B | -15815 | 3353 | 2506 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1C | -15812 | 3353 | 2505 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1D | -15815 | 3353 | 2505 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -15811 | 3353 | 2506 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1J | -15816 | 3353 | 2506 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1K | -15811 | 3353 | 2505 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1L | -15816 | 3353 | 2505 | -472 | -- | -- | -- | -1.65 | 0.14 | 1.00 | 0.35 | 1.90 | 0.37 | 0.06 | 0.51 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 34 Descrizione: Maschio murario n. 34 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -9999 | 2856 | -3010 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1B | -10002 | 2856 | -3010 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1C | -9999 | 2856 | -3013 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1D | -10002 | 2856 | -3013 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -9998 | 2857 | -3008 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1J | -10003 | 2857 | -3008 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1K | -9998 | 2857 | -3015 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1L | -10003 | 2857 | -3015 | -157 | -- | -- | -- | -1.15 | 0.10 | 1.00 | 0.33 | 1.52 | 0.43 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -24714 | 2400 | -1877 | -1198 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1B | -24723 | 2400 | -1877 | -1199 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1C | -24714 | 2400 | -1878 | -1198 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1D | -24723 | 2400 | -1878 | -1199 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -24707 | 2401 | -1876 | -1198 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1J | -24729 | 2401 | -1876 | -1199 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1K | -24707 | 2401 | -1879 | -1198 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1L | -24729 | 2401 | -1879 | -1199 | -- | -- | -- | -1.42 | 0.12 | 1.00 | 0.14 | 1.73 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -15093 | 3073 | 2435 | 625 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1B | -15095 | 3073 | 2435 | 625 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1C | -15093 | 3073 | 2435 | 625 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1D | -15095 | 3073 | 2435 | 625 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -15091 | 3073 | 2435 | 624 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1J | -15097 | 3073 | 2435 | 625 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1K | -15091 | 3073 | 2434 | 624 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1L | -15097 | 3073 | 2434 | 625 | -- | -- | -- | -1.74 | 0.15 | 1.00 | 0.35 | 1.96 | 0.36 | 0.09 | 0.52 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 35 Descrizione: Maschio murario n. 35 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -4013 | 431 | 119 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1B | -4017 | 431 | 119 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1C | -4013 | 431 | 116 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1D | -4017 | 431 | 116 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4010 | 432 | 120 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1J | -4019 | 432 | 120 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1K | -4010 | 432 | 115 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1L | -4019 | 432 | 115 | 0 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.08 | 1.19 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -9127 | 639 | 232 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1B | -9130 | 639 | 232 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1C | -9127 | 639 | 231 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1D | -9130 | 639 | 231 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -9125 | 639 | 233 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1J | -9132 | 639 | 233 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1K | -9125 | 639 | 230 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1L | -9132 | 639 | 230 | 0 | -- | -- | -- | -1.60 | 0.14 | 1.00 | 0.11 | 1.86 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -10000 | 194 | 113 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.97 | 0.03 | 0.00 | 0.04 | |
| 0 | 1B | -10002 | 194 | 113 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.97 | 0.03 | 0.00 | 0.04 | |
| 0 | 1C | -10000 | 194 | 111 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.97 | 0.03 | 0.00 | 0.04 | |
| 0 | 1D | -10002 | 194 | 111 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.97 | 0.03 | 0.00 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -9999 | 194 | 113 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.97 | 0.03 | 0.00 | 0.04 | |
| 0 | 1J | -10004 | 194 | 113 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.98 | 0.03 | 0.00 | 0.04 | |
| 0 | 1K | -9999 | 194 | 111 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.97 | 0.03 | 0.00 | 0.04 | |
| 0 | 1L | -10004 | 194 | 111 | 0 | -- | -- | -- | -1.75 | 0.15 | 1.00 | 0.03 | 1.98 | 0.03 | 0.00 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15907 | 1992 | -1088 | 566 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1B | -15908 | 1992 | -1088 | 566 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1C | -15907 | 1992 | -1089 | 566 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1D | -15908 | 1992 | -1089 | 566 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15907 | 1992 | -1088 | 565 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1J | -15908 | 1992 | -1088 | 566 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1K | -15907 | 1992 | -1090 | 565 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1L | -15908 | 1992 | -1090 | 566 | -- | -- | -- | -1.38 | 0.12 | 1.00 | 0.17 | 1.70 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -25249 | 1522 | -575 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1B | -25250 | 1522 | -575 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1C | -25249 | 1522 | -577 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1D | -25250 | 1522 | -577 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -25249 | 1522 | -574 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1J | -25251 | 1522 | -574 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1K | -25249 | 1522 | -577 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1L | -25251 | 1522 | -577 | 2186 | -- | -- | -- | -2.08 | 0.18 | 1.00 | 0.13 | 2.22 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -29168 | 1542 | -19 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1B | -29170 | 1542 | -19 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1C | -29168 | 1542 | -21 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1D | -29170 | 1542 | -21 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -29167 | 1543 | -18 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1J | -29171 | 1543 | -18 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1K | -29167 | 1543 | -22 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1L | -29171 | 1543 | -22 | 1088 | -- | -- | -- | -2.34 | 0.20 | 1.00 | 0.12 | 2.41 | 0.10 | 0.05 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 37 Descrizione: Maschio murario n. 37 Su Via dei Quartieri
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -17400 | 10800 | -6213 | -15075 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1B | -17403 | 10800 | -6213 | -15076 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1C | -17400 | 10800 | -6220 | -15075 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1D | -17403 | 10800 | -6220 | -15076 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -17398 | 10802 | -6208 | -15074 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1J | -17406 | 10802 | -6208 | -15076 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1K | -17398 | 10802 | -6224 | -15074 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1L | -17406 | 10802 | -6224 | -15076 | -- -- | -- | -0.65 | 0.04 | 1.00 | 0.41 | 1.49 | 0.54 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -60840 | 10582 | -11297 | -6790 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1B | -60856 | 10582 | -11297 | -6791 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1C | -60840 | 10582 | -11305 | -6790 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1D | -60856 | 10582 | -11305 | -6791 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -60828 | 10584 | -11290 | -6789 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1J | -60868 | 10584 | -11290 | -6792 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1K | -60828 | 10584 | -11311 | -6789 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1L | -60868 | 10584 | -11311 | -6792 | -- -- | -- | -1.14 | 0.07 | 1.00 | 0.20 | 1.86 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -39046 | 1098 | -2884 | -5470 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1B | -39053 | 1098 | -2884 | -5470 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1C | -39046 | 1098 | -2886 | -5470 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1D | -39053 | 1098 | -2886 | -5470 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -39041 | 1098 | -2882 | -5470 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1J | -39058 | 1098 | -2882 | -5471 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1K | -39041 | 1098 | -2888 | -5470 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1L | -39058 | 1098 | -2888 | -5471 | -- -- | -- | -1.47 | 0.09 | 1.00 | 0.04 | 2.10 | 0.04 | 0.09 | 0.21 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 38 Descrizione: Maschio murario n. 38 su via dei Quartieri
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -8705 | 10810 | -3092 | -3516 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1B | -8708 | 10810 | -3092 | -3516 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1C | -8705 | 10810 | -3095 | -3516 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1D | -8708 | 10810 | -3095 | -3516 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -8703 | 10812 | -3089 | -3515 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1J | -8710 | 10812 | -3089 | -3516 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1K | -8703 | 10812 | -3097 | -3515 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1L | -8710 | 10812 | -3097 | -3516 | -- -- | -- -- -- | -0.54 | 0.03 | 1.00 | 0.67 | 1.41 | 0.96 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -39385 | 2049 | -3390 | -6479 | -- -- | -- -- -- | -1.23 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1B | -39400 | 2049 | -3390 | -6480 | -- -- | -- -- -- | -1.23 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1C | -39385 | 2049 | -3394 | -6479 | -- -- | -- -- -- | -1.23 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1D | -39400 | 2049 | -3394 | -6480 | -- -- | -- -- -- | -1.23 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -39374 | 2050 | -3387 | -6479 | -- -- | -- -- -- | -1.22 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1J | -39411 | 2050 | -3387 | -6481 | -- -- | -- -- -- | -1.23 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1K | -39374 | 2050 | -3396 | -6479 | -- -- | -- -- -- | -1.22 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1L | -39411 | 2050 | -3396 | -6481 | -- -- | -- -- -- | -1.23 | 0.07 | 1.00 | 0.06 | 1.92 | 0.07 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -24897 | 2559 | 4755 | -3721 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.53 | |
| 0 | 1B | -24903 | 2559 | 4755 | -3721 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.53 | |
| 0 | 1C | -24897 | 2559 | 4750 | -3721 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.53 | |
| 0 | 1D | -24903 | 2559 | 4750 | -3721 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.53 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -24893 | 2560 | 4759 | -3720 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.54 | |
| 0 | 1J | -24907 | 2560 | 4759 | -3721 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.54 | |
| 0 | 1K | -24893 | 2560 | 4746 | -3720 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.53 | |
| 0 | 1L | -24907 | 2560 | 4746 | -3721 | -- -- | -- -- -- | -1.55 | 0.09 | 1.00 | 0.16 | 2.16 | 0.15 | 0.17 | 0.53 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 39 Descrizione: Maschio murario n. 39 su via dei Quartieri
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -20835 | 10169 | -6849 | 3715 | -- -- | -- -- -- | -1.51 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1B | -20838 | 10169 | -6849 | 3715 | -- -- | -- -- -- | -1.51 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1C | -20835 | 10169 | -6854 | 3715 | -- -- | -- -- -- | -1.51 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1D | -20838 | 10169 | -6854 | 3715 | -- -- | -- -- -- | -1.51 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -20834 | 10171 | -6846 | 3714 | -- -- | -- -- -- | -1.51 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1J | -20839 | 10171 | -6846 | 3715 | -- -- | -- -- -- | -1.52 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1K | -20834 | 10171 | -6858 | 3714 | -- -- | -- -- -- | -1.51 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1L | -20839 | 10171 | -6858 | 3715 | -- -- | -- -- -- | -1.52 | 0.09 | 1.00 | 0.74 | 2.14 | 0.69 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -40026 | 6022 | -3433 | 1396 | -- -- | -- -- -- | -1.46 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1B | -40038 | 6022 | -3433 | 1397 | -- -- | -- -- -- | -1.46 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1C | -40026 | 6022 | -3438 | 1396 | -- -- | -- -- -- | -1.46 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1D | -40038 | 6022 | -3438 | 1397 | -- -- | -- -- -- | -1.46 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -40018 | 6023 | -3429 | 1396 | -- -- | -- -- -- | -1.45 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1J | -40046 | 6023 | -3429 | 1397 | -- -- | -- -- -- | -1.46 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1K | -40018 | 6023 | -3442 | 1396 | -- -- | -- -- -- | -1.45 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1L | -40046 | 6023 | -3442 | 1397 | -- -- | -- -- -- | -1.46 | 0.09 | 1.00 | 0.22 | 2.09 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -24472 | 5798 | 5894 | -383 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1B | -24475 | 5798 | 5894 | -383 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1C | -24472 | 5798 | 5887 | -383 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1D | -24475 | 5798 | 5887 | -383 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -24470 | 5799 | 5898 | -382 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1J | -24477 | 5799 | 5898 | -384 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1K | -24470 | 5799 | 5883 | -382 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1L | -24477 | 5799 | 5883 | -384 | -- -- | -- -- -- | -1.78 | 0.10 | 1.00 | 0.42 | 2.33 | 0.36 | 0.02 | 0.69 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- -- -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 40 Descrizione: Maschio murario n. 40 su via dei quartieri
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -10029 | 9985 | -4377 | -1463 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1B | -10032 | 9985 | -4377 | -1463 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1C | -10029 | 9985 | -4378 | -1463 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1D | -10032 | 9985 | -4378 | -1463 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -10027 | 9987 | -4376 | -1462 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1J | -10035 | 9987 | -4376 | -1464 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1K | -10027 | 9987 | -4379 | -1462 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1L | -10035 | 9987 | -4379 | -1464 | -- | -- | -- | -0.57 | 0.03 | 1.00 | 0.56 | 1.43 | 0.79 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -40801 | 6777 | -3663 | -9461 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.86 | 0.21 | -- | -- | |
| ½ | 1B | -40817 | 6777 | -3663 | -9462 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.87 | 0.21 | -- | -- | |
| ½ | 1C | -40801 | 6777 | -3665 | -9461 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.86 | 0.21 | -- | -- | |
| ½ | 1D | -40817 | 6777 | -3665 | -9462 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.87 | 0.21 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -40789 | 6779 | -3663 | -9460 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.86 | 0.21 | -- | -- | |
| ½ | 1J | -40828 | 6779 | -3663 | -9463 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.87 | 0.21 | -- | -- | |
| ½ | 1K | -40789 | 6779 | -3665 | -9460 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.86 | 0.21 | -- | -- | |
| ½ | 1L | -40828 | 6779 | -3665 | -9463 | -- | -- | -- | -1.15 | 0.07 | 1.00 | 0.19 | 1.87 | 0.21 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -26135 | 3213 | 2407 | -805 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1B | -26140 | 3213 | 2407 | -806 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1C | -26135 | 3213 | 2406 | -805 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1D | -26140 | 3213 | 2406 | -806 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -26131 | 3214 | 2407 | -805 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1J | -26143 | 3214 | 2407 | -806 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1K | -26131 | 3214 | 2406 | -805 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1L | -26143 | 3214 | 2406 | -806 | -- | -- | -- | -1.48 | 0.09 | 1.00 | 0.18 | 2.11 | 0.17 | 0.03 | 0.26 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 41 Descrizione: Maschio murario n. 41 su via dei quartieri
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ cm | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -3624 | 2281 | -163 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1B | -3625 | 2281 | -163 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1C | -3624 | 2281 | -164 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1D | -3625 | 2281 | -164 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -3623 | 2282 | -163 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1J | -3626 | 2282 | -163 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1K | -3623 | 2282 | -164 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1L | -3626 | 2282 | -164 | 0 | -- | -- | -- | -0.35 | 0.02 | 1.00 | 0.22 | 1.26 | 0.35 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -18340 | 279 | -843 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1B | -18347 | 279 | -843 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1C | -18340 | 279 | -844 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1D | -18347 | 279 | -844 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -18336 | 279 | -843 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1J | -18351 | 279 | -843 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1K | -18336 | 279 | -844 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1L | -18351 | 279 | -844 | 0 | -- | -- | -- | -0.89 | 0.05 | 1.00 | 0.01 | 1.67 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -13714 | 364 | 48 | 0 | -- | -- | -- | -1.33 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1B | -13716 | 364 | 48 | 0 | -- | -- | -- | -1.34 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1C | -13714 | 364 | 48 | 0 | -- | -- | -- | -1.33 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1D | -13716 | 364 | 48 | 0 | -- | -- | -- | -1.34 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -13713 | 364 | 48 | 0 | -- | -- | -- | -1.33 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1J | -13718 | 364 | 48 | 0 | -- | -- | -- | -1.34 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1K | -13713 | 364 | 47 | 0 | -- | -- | -- | -1.33 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1L | -13718 | 364 | 47 | 0 | -- | -- | -- | -1.34 | 0.08 | 1.00 | 0.04 | 2.00 | 0.04 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 42 Descrizione: Maschio murario n. 42
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -2552 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1B | -2552 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1C | -2552 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1D | -2552 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2551 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1J | -2552 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1K | -2551 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1L | -2552 | 667 | -18 | 0 | -- | -- | -- | -0.53 | 0.05 | 1.00 | 0.14 | 1.06 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -7158 | 505 | -355 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1B | -7159 | 505 | -355 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1C | -7158 | 505 | -356 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1D | -7159 | 505 | -356 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -7158 | 505 | -355 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1J | -7159 | 505 | -355 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1K | -7158 | 505 | -356 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1L | -7159 | 505 | -356 | 113 | -- | -- | -- | -0.81 | 0.07 | 1.00 | 0.06 | 1.27 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11115 | 340 | 64 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1B | -11116 | 340 | 64 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1C | -11115 | 340 | 64 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1D | -11116 | 340 | 64 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11114 | 341 | 64 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1J | -11117 | 341 | 64 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1K | -11114 | 341 | 63 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1L | -11117 | 341 | 63 | -771 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.03 | 1.43 | 0.04 | 0.10 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 43 Descrizione: Maschio murario n. 43
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -5778 | 488 | -1402 | 872 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1B | -5780 | 488 | -1402 | 873 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1C | -5778 | 488 | -1402 | 872 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1D | -5780 | 488 | -1402 | 873 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5776 | 489 | -1402 | 872 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1J | -5782 | 489 | -1402 | 873 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1K | -5776 | 489 | -1402 | 872 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1L | -5782 | 489 | -1402 | 873 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.05 | 1.08 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17439 | 1294 | -2588 | -333 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1B | -17442 | 1294 | -2588 | -332 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1C | -17439 | 1294 | -2588 | -333 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1D | -17442 | 1294 | -2588 | -332 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17438 | 1295 | -2587 | -333 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1J | -17443 | 1295 | -2587 | -332 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1K | -17438 | 1295 | -2589 | -333 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1L | -17443 | 1295 | -2589 | -332 | -- | -- | -- | -1.00 | 0.09 | 1.00 | 0.07 | 1.41 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14628 | 698 | 1033 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1B | -14629 | 698 | 1033 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1C | -14628 | 698 | 1032 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1D | -14629 | 698 | 1032 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14627 | 698 | 1033 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1J | -14631 | 698 | 1033 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1K | -14627 | 698 | 1031 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1L | -14631 | 698 | 1031 | 1040 | -- | -- | -- | -1.09 | 0.09 | 1.00 | 0.05 | 1.48 | 0.07 | 0.08 | 0.23 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 44 Descrizione: Maschio murario n. 44
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -5629 | 863 | -2716 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1B | -5630 | 863 | -2716 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1C | -5629 | 863 | -2716 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1D | -5630 | 863 | -2716 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5628 | 863 | -2715 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1J | -5631 | 863 | -2715 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1K | -5628 | 863 | -2717 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1L | -5631 | 863 | -2717 | -307 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.10 | 1.13 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -24497 | 1862 | -2931 | -1153 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1B | -24502 | 1862 | -2931 | -1154 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1C | -24497 | 1862 | -2933 | -1153 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1D | -24502 | 1862 | -2933 | -1154 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -24493 | 1863 | -2930 | -1153 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1J | -24506 | 1863 | -2930 | -1155 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1K | -24493 | 1863 | -2935 | -1153 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1L | -24506 | 1863 | -2935 | -1155 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.07 | 1.38 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20983 | 1090 | 1112 | -305 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.18 | |
| 0 | 1B | -20986 | 1090 | 1112 | -305 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.18 | |
| 0 | 1C | -20983 | 1090 | 1109 | -305 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.17 | |
| 0 | 1D | -20986 | 1090 | 1109 | -305 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.17 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20982 | 1090 | 1114 | -304 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.18 | |
| 0 | 1J | -20988 | 1090 | 1114 | -305 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.18 | |
| 0 | 1K | -20982 | 1090 | 1107 | -304 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.17 | |
| 0 | 1L | -20988 | 1090 | 1107 | -305 | -- | -- | -- | -1.33 | 0.12 | 1.00 | 0.07 | 1.66 | 0.08 | 0.01 | 0.17 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 45 Descrizione: Maschio murario n. 45 su via san domenico
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ cm | Fx/A kg/cm² | $I_{RN}$ kg/cm² | $\beta$ kg/cm² | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ kg/cm² | $I_{rMz}$ $I_{rM}$ kg/cm² | $I_{rMy}$ $I_{rMfp}$ kg/cm² | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -7041 | 1756 | -961 | -1285 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1B | -7043 | 1756 | -961 | -1284 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1C | -7041 | 1756 | -962 | -1285 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1D | -7043 | 1756 | -962 | -1284 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -7039 | 1757 | -961 | -1286 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1J | -7045 | 1757 | -961 | -1283 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1K | -7039 | 1757 | -962 | -1286 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1L | -7045 | 1757 | -962 | -1283 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.11 | 1.00 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -14239 | 847 | -675 | -385 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1B | -14242 | 847 | -675 | -383 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1C | -14239 | 847 | -676 | -385 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1D | -14242 | 847 | -676 | -383 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -14237 | 848 | -674 | -386 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1J | -14244 | 848 | -674 | -382 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1K | -14237 | 848 | -677 | -386 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1L | -14244 | 848 | -677 | -382 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.06 | 1.36 | 0.08 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -19205 | 394 | 235 | 104 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1B | -19208 | 394 | 235 | 104 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1C | -19205 | 394 | 232 | 104 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1D | -19208 | 394 | 232 | 104 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -19204 | 395 | 237 | 103 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1J | -19210 | 395 | 237 | 104 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1K | -19204 | 395 | 230 | 103 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1L | -19210 | 395 | 230 | 104 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.03 | 1.60 | 0.03 | 0.01 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 46 Descrizione: Maschio murario n. 46 su via san domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -6683 | 266 | -1225 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1B | -6688 | 266 | -1225 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1C | -6683 | 266 | -1225 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1D | -6688 | 266 | -1225 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6680 | 269 | -1224 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1J | -6691 | 269 | -1224 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1K | -6680 | 269 | -1226 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1L | -6691 | 269 | -1226 | -32 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.03 | 1.18 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -14102 | 939 | -789 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1B | -14109 | 939 | -789 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1C | -14102 | 939 | -789 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1D | -14109 | 939 | -789 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -14098 | 941 | -789 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1J | -14114 | 941 | -789 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1K | -14098 | 941 | -790 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1L | -14114 | 941 | -790 | -229 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.07 | 1.39 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -13133 | 1017 | 576 | 77 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1B | -13135 | 1017 | 576 | 76 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1C | -13133 | 1017 | 575 | 77 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1D | -13135 | 1017 | 575 | 76 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -13133 | 1018 | 576 | 77 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1J | -13136 | 1018 | 576 | 76 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1K | -13133 | 1018 | 574 | 77 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1L | -13136 | 1018 | 574 | 76 | -- | -- | -- | -1.36 | 0.12 | 1.00 | 0.11 | 1.68 | 0.13 | 0.01 | 0.15 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 47 Descrizione: Maschio murario n. 47 su via san domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2435 | 773 | 2 | -254 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1B | -2438 | 773 | 2 | -254 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1C | -2435 | 773 | 2 | -254 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1D | -2438 | 773 | 2 | -254 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2432 | 774 | 2 | -253 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1J | -2441 | 774 | 2 | -254 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1K | -2432 | 774 | 2 | -253 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1L | -2441 | 774 | 2 | -254 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.07 | 0.83 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -15445 | 2034 | -52 | -852 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1B | -15456 | 2034 | -52 | -853 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1C | -15445 | 2034 | -52 | -852 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1D | -15456 | 2034 | -52 | -853 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -15438 | 2036 | -52 | -851 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1J | -15463 | 2036 | -52 | -854 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1K | -15438 | 2036 | -53 | -851 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1L | -15463 | 2036 | -53 | -854 | -- | -- | -- | -0.70 | 0.06 | 1.00 | 0.09 | 1.19 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -10856 | 585 | -35 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1B | -10857 | 585 | -35 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1C | -10856 | 585 | -35 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1D | -10857 | 585 | -35 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -10855 | 586 | -35 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1J | -10857 | 586 | -35 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1K | -10855 | 586 | -36 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1L | -10857 | 586 | -36 | 72 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.05 | 1.40 | 0.08 | 0.01 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 48 Descrizione: Maschio murario n. 48 su via san Domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1880 | 938 | -3 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1B | -1880 | 938 | -3 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1C | -1880 | 938 | -3 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1D | -1880 | 938 | -3 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1880 | 938 | -2 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1J | -1881 | 938 | -2 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1K | -1880 | 938 | -3 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1L | -1881 | 938 | -3 | 114 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.08 | 0.79 | 0.21 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -12562 | 420 | -107 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1B | -12564 | 420 | -107 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1C | -12562 | 420 | -108 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1D | -12564 | 420 | -108 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -12561 | 420 | -107 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1J | -12565 | 420 | -107 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1K | -12561 | 420 | -109 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1L | -12565 | 420 | -109 | 407 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.02 | 1.08 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -10865 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1B | -10865 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1C | -10865 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1D | -10865 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -10864 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1J | -10866 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1K | -10864 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1L | -10866 | 609 | -59 | -133 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.39 | 0.08 | 0.02 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 49 Descrizione: Maschio murario n. 49 su via san Domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2916 | 1064 | -13 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1B | -2916 | 1064 | -13 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1C | -2916 | 1064 | -13 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1D | -2916 | 1064 | -13 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2915 | 1065 | -13 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1J | -2916 | 1065 | -13 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1K | -2915 | 1065 | -14 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1L | -2916 | 1065 | -14 | 210 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.08 | 0.83 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -20435 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1B | -20437 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1C | -20435 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1D | -20437 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -20434 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1J | -20438 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1K | -20434 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1L | -20438 | 2202 | -93 | 1002 | -- | -- | -- | -0.77 | 0.07 | 1.00 | 0.08 | 1.24 | 0.13 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14503 | 428 | -154 | -41 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1B | -14503 | 428 | -154 | -40 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1C | -14503 | 428 | -154 | -41 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1D | -14503 | 428 | -154 | -40 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14502 | 428 | -154 | -41 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1J | -14504 | 428 | -154 | -40 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1K | -14502 | 428 | -154 | -41 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1L | -14504 | 428 | -154 | -40 | -- | -- | -- | -1.10 | 0.10 | 1.00 | 0.03 | 1.48 | 0.04 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 50 Descrizione: Maschio murario n. 50 su via san Domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2746 | 2329 | -9 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1B | -2747 | 2329 | -9 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1C | -2746 | 2329 | -9 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1D | -2747 | 2329 | -9 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2745 | 2329 | -8 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1J | -2747 | 2329 | -8 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1K | -2745 | 2329 | -9 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1L | -2747 | 2329 | -9 | 494 | -- | -- | -- | -0.22 | 0.02 | 1.00 | 0.19 | 0.82 | 0.45 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -18177 | 2168 | 59 | 2298 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1B | -18181 | 2168 | 59 | 2298 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1C | -18177 | 2168 | 58 | 2298 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1D | -18181 | 2168 | 58 | 2298 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -18174 | 2168 | 60 | 2298 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1J | -18185 | 2168 | 60 | 2299 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1K | -18174 | 2168 | 57 | 2298 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1L | -18185 | 2168 | 57 | 2299 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.09 | 1.21 | 0.14 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -14606 | 1283 | -28 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1B | -14607 | 1283 | -28 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1C | -14606 | 1283 | -29 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1D | -14607 | 1283 | -29 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -14606 | 1284 | -28 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1J | -14607 | 1284 | -28 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1K | -14606 | 1284 | -29 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1L | -14607 | 1284 | -29 | -290 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.10 | 1.54 | 0.13 | 0.03 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 51 Descrizione: Maschio murario n. 51 su via san Domenico
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -15033 | 4143 | -5496 | 2842 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1B | -15035 | 4143 | -5496 | 2842 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1C | -15033 | 4143 | -5498 | 2842 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1D | -15035 | 4143 | -5498 | 2842 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15032 | 4144 | -5494 | 2842 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1J | -15036 | 4144 | -5494 | 2843 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1K | -15032 | 4144 | -5500 | 2842 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1L | -15036 | 4144 | -5500 | 2843 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.27 | 1.38 | 0.38 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -37610 | 3614 | -2566 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1B | -37615 | 3614 | -2566 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1C | -37610 | 3614 | -2567 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1D | -37615 | 3614 | -2567 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -37606 | 3615 | -2565 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1J | -37619 | 3615 | -2565 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1K | -37606 | 3615 | -2568 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1L | -37619 | 3615 | -2568 | 980 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.12 | 1.56 | 0.15 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -23860 | 3142 | 3863 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1B | -23861 | 3142 | 3863 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1C | -23860 | 3142 | 3862 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1D | -23861 | 3142 | 3862 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -23860 | 3143 | 3864 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1J | -23862 | 3143 | 3864 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1K | -23860 | 3143 | 3861 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1L | -23862 | 3143 | 3861 | -639 | -- | -- | -- | -1.53 | 0.13 | 1.00 | 0.20 | 1.81 | 0.22 | 0.03 | 0.55 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 52 Descrizione: Maschio murario n. 52 su via san Domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3021 | 2160 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1B | -3023 | 2160 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1C | -3021 | 2160 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1D | -3023 | 2160 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3020 | 2162 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1J | -3024 | 2162 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1K | -3020 | 2162 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1L | -3024 | 2162 | -571 | -96 | -- | -- | -- | -0.19 | 0.02 | 1.00 | 0.13 | 0.80 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -34353 | 2589 | -1571 | -515 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1B | -34360 | 2589 | -1571 | -516 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1C | -34353 | 2589 | -1571 | -515 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1D | -34360 | 2589 | -1571 | -516 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -34349 | 2590 | -1571 | -515 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1J | -34364 | 2590 | -1571 | -516 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1K | -34349 | 2590 | -1572 | -515 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1L | -34364 | 2590 | -1572 | -516 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.08 | 1.46 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27560 | 1170 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1B | -27561 | 1170 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1C | -27560 | 1170 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1D | -27561 | 1170 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27559 | 1171 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1J | -27561 | 1171 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1K | -27559 | 1171 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1L | -27561 | 1171 | 811 | -341 | -- | -- | -- | -1.71 | 0.15 | 1.00 | 0.07 | 1.95 | 0.07 | 0.01 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 53 Descrizione: Maschio murario n. 53 su via san domenico
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -13655 | 892 | -5674 | -554 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1B | -13656 | 892 | -5674 | -555 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1C | -13655 | 892 | -5676 | -554 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1D | -13656 | 892 | -5676 | -555 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -13655 | 892 | -5673 | -554 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1J | -13657 | 892 | -5673 | -555 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1K | -13655 | 892 | -5677 | -554 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1L | -13657 | 892 | -5677 | -555 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.07 | 1.50 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -30375 | 4949 | -2881 | -1833 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1B | -30379 | 4949 | -2881 | -1834 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1C | -30375 | 4949 | -2882 | -1833 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1D | -30379 | 4949 | -2882 | -1834 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -30373 | 4949 | -2880 | -1832 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1J | -30382 | 4949 | -2880 | -1834 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1K | -30373 | 4949 | -2882 | -1832 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1L | -30382 | 4949 | -2882 | -1834 | -- | -- | -- | -1.25 | 0.11 | 1.00 | 0.20 | 1.60 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -19127 | 3387 | 3680 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.66 | |
| 0 | 1B | -19128 | 3387 | 3680 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.66 | |
| 0 | 1C | -19127 | 3387 | 3679 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.65 | |
| 0 | 1D | -19128 | 3387 | 3679 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.65 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -19127 | 3388 | 3681 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.66 | |
| 0 | 1J | -19129 | 3388 | 3681 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.66 | |
| 0 | 1K | -19127 | 3388 | 3678 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.65 | |
| 0 | 1L | -19129 | 3388 | 3678 | 435 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.28 | 1.84 | 0.30 | 0.03 | 0.65 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 54 Descrizione: Maschio murario n. 54 su via san Domenico
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx kg | V | My kg * m | Mz | $es_1/e_v$ cm | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -2796 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1B | -2797 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1C | -2796 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1D | -2797 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -2796 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1J | -2797 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1K | -2796 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1L | -2797 | 1721 | -14 | 0 | -- | -- | -- | -0.48 | 0.03 | 1.00 | 0.29 | 1.36 | 0.43 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -12573 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1B | -12574 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1C | -12573 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1D | -12574 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -12572 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1J | -12575 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1K | -12572 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1L | -12575 | 1684 | -129 | 0 | -- | -- | -- | -1.07 | 0.06 | 1.00 | 0.14 | 1.81 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -6968 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1B | -6968 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1C | -6968 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1D | -6968 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -6968 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1J | -6969 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1K | -6968 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1L | -6969 | 1017 | -46 | 0 | -- | -- | -- | -1.19 | 0.07 | 1.00 | 0.17 | 1.89 | 0.18 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3252 | 163 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1B | -3253 | 163 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1C | -3252 | 163 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1D | -3253 | 163 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3251 | 164 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1J | -3253 | 164 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1K | -3251 | 164 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1L | -3253 | 164 | 33 | 0 | -- | -- | -- | -0.97 | 0.08 | 1.00 | 0.05 | 1.38 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -5664 | 1255 | -111 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1B | -5667 | 1255 | -111 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1C | -5664 | 1255 | -111 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1D | -5667 | 1255 | -111 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -5662 | 1256 | -110 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1J | -5669 | 1256 | -110 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1K | -5662 | 1256 | -111 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1L | -5669 | 1256 | -111 | 0 | -- | -- | -- | -1.68 | 0.15 | 1.00 | 0.37 | 1.92 | 0.39 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -7760 | 639 | -24 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1B | -7761 | 639 | -24 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1C | -7760 | 639 | -25 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1D | -7761 | 639 | -25 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -7759 | 640 | -24 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1J | -7762 | 640 | -24 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1K | -7759 | 640 | -25 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1L | -7762 | 640 | -25 | 0 | -- | -- | -- | -2.30 | 0.20 | 1.00 | 0.19 | 2.39 | 0.16 | 0.00 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6121 | 618 | 94 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1B | -6122 | 618 | 94 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1C | -6121 | 618 | 94 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1D | -6122 | 618 | 94 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6121 | 619 | 95 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1J | -6122 | 619 | 95 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1K | -6121 | 619 | 94 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1L | -6122 | 619 | 94 | -92 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.07 | 1.20 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -15123 | 2220 | -59 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| ½ | 1B | -15129 | 2220 | -59 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| ½ | 1C | -15123 | 2220 | -60 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| ½ | 1D | -15129 | 2220 | -60 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -15119 | 2222 | -59 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.98 | 0.26 | -- | -- | |
| ½ | 1J | -15133 | 2222 | -59 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| ½ | 1K | -15119 | 2222 | -60 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.98 | 0.26 | -- | -- | |
| ½ | 1L | -15133 | 2222 | -60 | -968 | -- | -- | -- | -1.77 | 0.15 | 1.00 | 0.26 | 1.99 | 0.26 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -16509 | 2412 | 245 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1B | -16516 | 2412 | 245 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1C | -16509 | 2412 | 245 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1D | -16516 | 2412 | 245 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -16504 | 2414 | 246 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1J | -16520 | 2414 | 246 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1K | -16504 | 2414 | 244 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1L | -16520 | 2414 | 244 | 627 | -- | -- | -- | -1.93 | 0.17 | 1.00 | 0.28 | 2.11 | 0.27 | 0.08 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -13286 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1B | -13287 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1C | -13286 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1D | -13287 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -13285 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1J | -13288 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1K | -13285 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1L | -13288 | 919 | 197 | -1024 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.09 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -23798 | 1288 | -271 | 491 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1B | -23805 | 1288 | -271 | 494 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1C | -23798 | 1288 | -272 | 491 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1D | -23805 | 1288 | -272 | 494 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -23792 | 1292 | -271 | 489 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1J | -23811 | 1292 | -271 | 496 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1K | -23792 | 1292 | -272 | 489 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1L | -23811 | 1292 | -272 | 496 | -- | -- | -- | -1.55 | 0.13 | 1.00 | 0.08 | 1.82 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -28426 | 2536 | 2 | 1196 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1B | -28431 | 2536 | 2 | 1199 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1C | -28426 | 2536 | 2 | 1196 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1D | -28431 | 2536 | 2 | 1199 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -28422 | 2541 | 3 | 1195 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1J | -28435 | 2541 | 3 | 1200 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1K | -28422 | 2541 | 2 | 1195 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1L | -28435 | 2541 | 2 | 1200 | -- | -- | -- | -1.86 | 0.16 | 1.00 | 0.17 | 2.06 | 0.16 | 0.05 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -18147 | 4943 | 443 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1B | -18149 | 4943 | 443 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1C | -18147 | 4943 | 443 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1D | -18149 | 4943 | 443 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18146 | 4944 | 444 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1J | -18151 | 4944 | 444 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1K | -18146 | 4944 | 443 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1L | -18151 | 4944 | 443 | 1606 | -- | -- | -- | -1.30 | 0.11 | 1.00 | 0.35 | 1.63 | 0.43 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -27614 | 4210 | 385 | 2912 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1B | -27618 | 4210 | 385 | 2911 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1C | -27614 | 4210 | 384 | 2912 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1D | -27618 | 4210 | 384 | 2911 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -27612 | 4213 | 385 | 2912 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1J | -27621 | 4213 | 385 | 2911 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1K | -27612 | 4213 | 384 | 2912 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1L | -27621 | 4213 | 384 | 2911 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.30 | 2.14 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -25846 | 2554 | 65 | -740 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1B | -25851 | 2554 | 65 | -739 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1C | -25846 | 2554 | 64 | -740 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1D | -25851 | 2554 | 64 | -739 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -25843 | 2557 | 65 | -741 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1J | -25854 | 2557 | 65 | -738 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1K | -25843 | 2557 | 63 | -741 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1L | -25854 | 2557 | 63 | -738 | -- | -- | -- | -1.85 | 0.16 | 1.00 | 0.18 | 2.05 | 0.18 | 0.04 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -21028 | 3683 | 69 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1B | -21029 | 3683 | 69 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1C | -21028 | 3683 | 68 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1D | -21029 | 3683 | 68 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -21028 | 3684 | 70 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1J | -21030 | 3684 | 70 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1K | -21028 | 3684 | 68 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1L | -21030 | 3684 | 68 | 679 | -- | -- | -- | -1.92 | 0.11 | 1.00 | 0.34 | 2.44 | 0.28 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -22748 | 5473 | -5 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1B | -22748 | 5473 | -5 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1C | -22748 | 5473 | -5 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1D | -22748 | 5473 | -5 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -22748 | 5474 | -5 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1J | -22748 | 5474 | -5 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1K | -22748 | 5474 | -6 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1L | -22748 | 5474 | -6 | 307 | -- | -- | -- | -2.07 | 0.12 | 1.00 | 0.50 | 2.56 | 0.39 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -22437 | 6787 | 147 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1B | -22438 | 6787 | 147 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1C | -22437 | 6787 | 146 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1D | -22438 | 6787 | 146 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -22437 | 6789 | 147 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1J | -22439 | 6789 | 147 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1K | -22437 | 6789 | 145 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1L | -22439 | 6789 | 145 | -146 | -- | -- | -- | -2.04 | 0.12 | 1.00 | 0.62 | 2.53 | 0.49 | 0.01 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -6871 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1B | -6872 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1C | -6871 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1D | -6872 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6871 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1J | -6873 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1K | -6871 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1L | -6873 | 1340 | 12 | 0 | -- | -- | -- | -1.50 | 0.13 | 1.00 | 0.29 | 1.78 | 0.33 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -10158 | 2174 | -36 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1B | -10159 | 2174 | -36 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1C | -10158 | 2174 | -36 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1D | -10159 | 2174 | -36 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -10158 | 2175 | -35 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1J | -10160 | 2175 | -35 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1K | -10158 | 2175 | -36 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1L | -10160 | 2175 | -36 | 0 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.47 | 2.32 | 0.41 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11446 | 2462 | -159 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1B | -11448 | 2462 | -159 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1C | -11446 | 2462 | -159 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1D | -11448 | 2462 | -159 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11446 | 2462 | -158 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1J | -11448 | 2462 | -158 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1K | -11446 | 2462 | -160 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1L | -11448 | 2462 | -160 | 0 | -- | -- | -- | -2.50 | 0.22 | 1.00 | 0.54 | 2.53 | 0.42 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 61 Descrizione: Maschio murario n. 61 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -12708 | 6089 | -238 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1B | -12710 | 6089 | -238 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1C | -12708 | 6089 | -239 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1D | -12710 | 6089 | -239 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -12707 | 6090 | -238 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1J | -12711 | 6090 | -238 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1K | -12707 | 6090 | -239 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1L | -12711 | 6090 | -239 | -2152 | -- | -- | -- | -2.10 | 0.12 | 1.00 | 1.00 | 2.57 | 0.78 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -17609 | 5087 | -65 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1B | -17610 | 5087 | -65 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1C | -17609 | 5087 | -65 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1D | -17610 | 5087 | -65 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -17608 | 5087 | -65 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1J | -17610 | 5087 | -65 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1K | -17608 | 5087 | -66 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1L | -17610 | 5087 | -66 | -418 | -- | -- | -- | -1.45 | 0.09 | 1.00 | 0.42 | 2.09 | 0.40 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -5603 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1B | -5603 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1C | -5603 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1D | -5603 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -5602 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1J | -5604 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1K | -5602 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1L | -5604 | 3776 | 89 | 700 | -- | -- | -- | -0.92 | 0.05 | 1.00 | 0.62 | 1.69 | 0.74 | 0.33 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -44743 | 6259 | -4417 | 8775 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1B | -44746 | 6259 | -4417 | 8773 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1C | -44743 | 6259 | -4421 | 8775 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1D | -44746 | 6259 | -4421 | 8773 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -44741 | 6259 | -4414 | 8776 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1J | -44748 | 6259 | -4414 | 8772 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1K | -44741 | 6259 | -4424 | 8776 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1L | -44748 | 6259 | -4424 | 8772 | -- | -- | -- | -1.44 | 0.12 | 1.00 | 0.20 | 1.74 | 0.23 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -57242 | 3971 | -937 | -1545 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1B | -57246 | 3971 | -937 | -1550 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1C | -57242 | 3971 | -940 | -1545 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1D | -57246 | 3971 | -940 | -1550 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -57239 | 3972 | -935 | -1542 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1J | -57248 | 3972 | -935 | -1553 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1K | -57239 | 3972 | -941 | -1542 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1L | -57248 | 3972 | -941 | -1553 | -- | -- | -- | -1.81 | 0.16 | 1.00 | 0.13 | 2.02 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -64794 | 4449 | 739 | -2204 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.14 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1B | -64798 | 4449 | 739 | -2206 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.14 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1C | -64794 | 4449 | 733 | -2204 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.14 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1D | -64798 | 4449 | 733 | -2206 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.14 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -64792 | 4450 | 743 | -2202 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.15 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1J | -64801 | 4450 | 743 | -2207 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.15 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1K | -64792 | 4450 | 729 | -2202 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.15 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1L | -64801 | 4450 | 729 | -2207 | -- | -- | -- | -2.11 | 0.18 | 1.00 | 0.15 | 2.24 | 0.13 | 0.02 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 410.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -26004 | 6243 | -1332 | 3349 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1B | -26005 | 6243 | -1332 | 3349 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1C | -26004 | 6243 | -1335 | 3349 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1D | -26005 | 6243 | -1335 | 3349 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -26003 | 6244 | -1330 | 3349 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1J | -26005 | 6244 | -1330 | 3350 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1K | -26003 | 6244 | -1337 | 3349 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1L | -26005 | 6244 | -1337 | 3350 | -- | -- | -- | -2.33 | 0.14 | 1.00 | 0.56 | 2.74 | 0.41 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -25211 | 4583 | 211 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1B | -25212 | 4583 | 211 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1C | -25211 | 4583 | 209 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1D | -25212 | 4583 | 209 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -25211 | 4584 | 211 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1J | -25213 | 4584 | 211 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1K | -25211 | 4584 | 208 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1L | -25213 | 4584 | 208 | 722 | -- | -- | -- | -2.16 | 0.13 | 1.00 | 0.39 | 2.62 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -21356 | 1975 | 996 | -348 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.50 | 0.15 | 0.03 | 0.14 | |
| 0 | 1B | -21358 | 1975 | 996 | -347 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.50 | 0.15 | 0.03 | 0.14 | |
| 0 | 1C | -21356 | 1975 | 991 | -348 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.50 | 0.15 | 0.03 | 0.14 | |
| 0 | 1D | -21358 | 1975 | 991 | -347 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.50 | 0.15 | 0.03 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21354 | 1975 | 999 | -348 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.49 | 0.15 | 0.03 | 0.14 | |
| 0 | 1J | -21359 | 1975 | 999 | -347 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.50 | 0.15 | 0.03 | 0.14 | |
| 0 | 1K | -21354 | 1975 | 988 | -348 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.49 | 0.15 | 0.03 | 0.14 | |
| 0 | 1L | -21359 | 1975 | 988 | -347 | -- | -- | -- | -1.99 | 0.12 | 1.00 | 0.18 | 2.50 | 0.15 | 0.03 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 65 Descrizione: Maschio murario n. 65
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -4476 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1B | -4477 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1C | -4476 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1D | -4477 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4475 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1J | -4478 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1K | -4475 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1L | -4478 | 646 | 521 | -7 | -- | -- | -- | -0.39 | 0.03 | 1.00 | 0.06 | 0.95 | 0.12 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -11758 | 378 | 83 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.42 | 0.05 | -- | -- | |
| ½ | 1B | -11761 | 378 | 83 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.43 | 0.05 | -- | -- | |
| ½ | 1C | -11758 | 378 | 82 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.42 | 0.05 | -- | -- | |
| ½ | 1D | -11761 | 378 | 82 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.43 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -11755 | 378 | 83 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.42 | 0.05 | -- | -- | |
| ½ | 1J | -11763 | 378 | 83 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.43 | 0.05 | -- | -- | |
| ½ | 1K | -11755 | 378 | 82 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.42 | 0.05 | -- | -- | |
| ½ | 1L | -11763 | 378 | 82 | -101 | -- | -- | -- | -1.02 | 0.09 | 1.00 | 0.03 | 1.43 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -15030 | 676 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1B | -15032 | 676 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1C | -15030 | 676 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1D | -15032 | 676 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -15028 | 677 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1J | -15034 | 677 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1K | -15028 | 677 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1L | -15034 | 677 | -421 | 0 | -- | -- | -- | -1.32 | 0.11 | 1.00 | 0.06 | 1.65 | 0.07 | 0.00 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -4909 | 490 | 148 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1B | -4909 | 490 | 148 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1C | -4909 | 490 | 147 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1D | -4909 | 490 | 147 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4908 | 491 | 148 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1J | -4909 | 491 | 148 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1K | -4908 | 491 | 147 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1L | -4909 | 491 | 147 | 161 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.10 | 1.40 | 0.14 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -7822 | 550 | 125 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1B | -7823 | 550 | 125 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1C | -7822 | 550 | 124 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1D | -7823 | 550 | 124 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -7821 | 550 | 125 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1J | -7823 | 550 | 125 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1K | -7821 | 550 | 123 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1L | -7823 | 550 | 123 | -11 | -- | -- | -- | -1.57 | 0.14 | 1.00 | 0.11 | 1.84 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -11014 | 1647 | 6 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1B | -11015 | 1647 | 6 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1C | -11014 | 1647 | 5 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1D | -11015 | 1647 | 5 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -11014 | 1647 | 7 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1J | -11016 | 1647 | 7 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1K | -11014 | 1647 | 4 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1L | -11016 | 1647 | 4 | -181 | -- | -- | -- | -2.22 | 0.19 | 1.00 | 0.33 | 2.32 | 0.29 | 0.06 | 0.00 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -22426 | 2421 | 264 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1B | -22429 | 2421 | 264 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1C | -22426 | 2421 | 263 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1D | -22429 | 2421 | 263 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -22425 | 2421 | 264 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1J | -22430 | 2421 | 264 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1K | -22425 | 2421 | 262 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1L | -22430 | 2421 | 262 | -125 | -- | -- | -- | -0.93 | 0.08 | 1.00 | 0.10 | 1.36 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -55339 | 10022 | -969 | 5972 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1B | -55345 | 10022 | -969 | 5970 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1C | -55339 | 10022 | -972 | 5972 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1D | -55345 | 10022 | -972 | 5970 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -55335 | 10025 | -967 | 5973 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1J | -55349 | 10025 | -967 | 5969 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1K | -55335 | 10025 | -973 | 5973 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1L | -55349 | 10025 | -973 | 5969 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.27 | 1.77 | 0.30 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -38597 | 4825 | -650 | -1021 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1B | -38601 | 4825 | -650 | -1024 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1C | -38597 | 4825 | -651 | -1021 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1D | -38601 | 4825 | -651 | -1024 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -38594 | 4826 | -649 | -1020 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1J | -38604 | 4826 | -649 | -1025 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1K | -38594 | 4826 | -652 | -1020 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1L | -38604 | 4826 | -652 | -1025 | -- | -- | -- | -1.91 | 0.17 | 1.00 | 0.24 | 2.09 | 0.23 | 0.02 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -10084 | 854 | 240 | 412 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1B | -10085 | 854 | 240 | 413 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1C | -10084 | 854 | 239 | 412 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1D | -10085 | 854 | 239 | 413 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -10083 | 855 | 240 | 412 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1J | -10086 | 855 | 240 | 413 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1K | -10083 | 855 | 239 | 412 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1L | -10086 | 855 | 239 | 413 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.07 | 1.25 | 0.11 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17984 | 2403 | 135 | 707 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1B | -17990 | 2403 | 135 | 706 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1C | -17984 | 2403 | 132 | 707 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1D | -17990 | 2403 | 132 | 706 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17980 | 2405 | 137 | 707 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1J | -17994 | 2405 | 137 | 706 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1K | -17980 | 2405 | 130 | 707 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1L | -17994 | 2405 | 130 | 706 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.14 | 1.43 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20540 | 2671 | -28 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.00 | |
| 0 | 1B | -20547 | 2671 | -28 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.00 | |
| 0 | 1C | -20540 | 2671 | -31 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.01 | |
| 0 | 1D | -20547 | 2671 | -31 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.01 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20535 | 2673 | -26 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.00 | |
| 0 | 1J | -20552 | 2673 | -26 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.00 | |
| 0 | 1K | -20535 | 2673 | -33 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.01 | |
| 0 | 1L | -20552 | 2673 | -33 | 380 | -- | -- | -- | -1.49 | 0.13 | 1.00 | 0.19 | 1.78 | 0.22 | 0.02 | 0.01 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 69 Descrizione: Maschio murario n. 69 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -5922 | 2235 | -521 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1B | -5922 | 2235 | -521 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1C | -5922 | 2235 | -523 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1D | -5922 | 2235 | -523 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5922 | 2235 | -521 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1J | -5922 | 2235 | -521 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1K | -5922 | 2235 | -523 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1L | -5922 | 2235 | -523 | -1901 | -- | -- | -- | -0.49 | 0.04 | 1.00 | 0.19 | 1.03 | 0.36 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -15753 | 4882 | 58 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1B | -15753 | 4882 | 58 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1C | -15753 | 4882 | 57 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1D | -15753 | 4882 | 57 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -15752 | 4882 | 58 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1J | -15754 | 4882 | 58 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1K | -15752 | 4882 | 57 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1L | -15754 | 4882 | 57 | -1713 | -- | -- | -- | -0.65 | 0.06 | 1.00 | 0.20 | 1.15 | 0.35 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -18510 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1B | -18510 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1C | -18510 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1D | -18510 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -18510 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1J | -18511 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1K | -18510 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1L | -18511 | 5241 | 355 | 575 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.32 | 1.51 | 0.43 | 0.03 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 70 Descrizione: Maschio murario n. 70 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -5054 | 624 | 490 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1B | -5054 | 624 | 490 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1C | -5054 | 624 | 490 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1D | -5054 | 624 | 490 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5054 | 624 | 490 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1J | -5054 | 624 | 490 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1K | -5054 | 624 | 489 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1L | -5054 | 624 | 489 | 185 | -- | -- | -- | -0.56 | 0.05 | 1.00 | 0.07 | 1.08 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -7577 | 1258 | 78 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1B | -7577 | 1258 | 78 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1C | -7577 | 1258 | 78 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1D | -7577 | 1258 | 78 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -7576 | 1258 | 79 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1J | -7577 | 1258 | 79 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1K | -7576 | 1258 | 78 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1L | -7577 | 1258 | 78 | -5 | -- | -- | -- | -0.86 | 0.08 | 1.00 | 0.14 | 1.31 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -9693 | 1634 | -292 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.10 | |
| 0 | 1B | -9694 | 1634 | -292 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.10 | |
| 0 | 1C | -9693 | 1634 | -292 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.10 | |
| 0 | 1D | -9694 | 1634 | -292 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -9693 | 1634 | -292 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.10 | |
| 0 | 1J | -9694 | 1634 | -292 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.10 | |
| 0 | 1K | -9693 | 1634 | -293 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.11 | |
| 0 | 1L | -9694 | 1634 | -293 | -123 | -- | -- | -- | -1.13 | 0.10 | 1.00 | 0.19 | 1.51 | 0.25 | 0.02 | 0.11 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 71 Descrizione: Maschio murario n. 71
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -5017 | 1395 | 861 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1B | -5018 | 1395 | 861 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1C | -5017 | 1395 | 861 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1D | -5018 | 1395 | 861 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5017 | 1395 | 862 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1J | -5018 | 1395 | 862 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1K | -5017 | 1395 | 861 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1L | -5018 | 1395 | 861 | -423 | -- | -- | -- | -0.42 | 0.04 | 1.00 | 0.12 | 0.97 | 0.24 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -11264 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1B | -11266 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1C | -11264 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1D | -11266 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -11263 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1J | -11267 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1K | -11263 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1L | -11267 | 1875 | 421 | -1494 | -- | -- | -- | -0.69 | 0.06 | 1.00 | 0.12 | 1.18 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -12838 | 1830 | -541 | 13 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1B | -12838 | 1830 | -541 | 13 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1C | -12838 | 1830 | -541 | 13 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1D | -12838 | 1830 | -541 | 13 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -12837 | 1831 | -541 | 12 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1J | -12838 | 1831 | -541 | 13 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1K | -12837 | 1831 | -542 | 12 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1L | -12838 | 1831 | -542 | 13 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.14 | 1.38 | 0.20 | 0.00 | 0.16 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2537 | 119 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1B | -2538 | 119 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1C | -2537 | 119 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1D | -2538 | 119 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2537 | 120 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1J | -2538 | 120 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1K | -2537 | 120 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1L | -2538 | 120 | -359 | 0 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.04 | 1.28 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -11977 | 1356 | -147 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1B | -11979 | 1356 | -147 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1C | -11977 | 1356 | -147 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1D | -11979 | 1356 | -147 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -11976 | 1358 | -146 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1J | -11980 | 1358 | -146 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1K | -11976 | 1358 | -148 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1L | -11980 | 1358 | -148 | 253 | -- | -- | -- | -1.48 | 0.13 | 1.00 | 0.17 | 1.77 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -15536 | 2985 | 869 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1B | -15539 | 2985 | 869 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1C | -15536 | 2985 | 868 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1D | -15539 | 2985 | 868 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -15534 | 2986 | 869 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1J | -15542 | 2986 | 869 | 0 | -- | -- | -- | -2.70 | 0.24 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1K | -15534 | 2986 | 868 | 0 | -- | -- | -- | -2.70 | 0.23 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1L | -15542 | 2986 | 868 | 0 | -- | -- | -- | -2.70 | 0.24 | 1.00 | 0.52 | 2.69 | 0.39 | 0.00 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -10187 | 1107 | -1275 | 149 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1B | -10191 | 1107 | -1275 | 149 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1C | -10187 | 1107 | -1276 | 149 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1D | -10191 | 1107 | -1276 | 149 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -10184 | 1109 | -1275 | 149 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1J | -10194 | 1109 | -1275 | 149 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1K | -10184 | 1109 | -1277 | 149 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1L | -10194 | 1109 | -1277 | 149 | -- | -- | -- | -1.17 | 0.10 | 1.00 | 0.13 | 1.53 | 0.17 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -15595 | 1025 | -283 | -255 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1B | -15600 | 1025 | -283 | -256 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1C | -15595 | 1025 | -284 | -255 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1D | -15600 | 1025 | -284 | -256 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -15591 | 1027 | -282 | -255 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1J | -15604 | 1027 | -282 | -256 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1K | -15591 | 1027 | -284 | -255 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1L | -15604 | 1027 | -284 | -256 | -- | -- | -- | -1.82 | 0.16 | 1.00 | 0.12 | 2.02 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -16083 | 1501 | 1791 | -265 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.17 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1B | -16089 | 1501 | 1791 | -264 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.17 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1C | -16083 | 1501 | 1789 | -265 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.17 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1D | -16089 | 1501 | 1789 | -264 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.17 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -16078 | 1502 | 1792 | -266 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1J | -16094 | 1502 | 1792 | -264 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.18 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1K | -16078 | 1502 | 1788 | -266 | -- | -- | -- | -1.87 | 0.16 | 1.00 | 0.18 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1L | -16094 | 1502 | 1788 | -264 | -- | -- | -- | -1.88 | 0.16 | 1.00 | 0.18 | 2.07 | 0.17 | 0.03 | 0.39 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 76 Descrizione: Maschio murario n. 76 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -15119 | 3489 | -3052 | -1809 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1B | -15121 | 3489 | -3052 | -1810 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1C | -15119 | 3489 | -3055 | -1809 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1D | -15121 | 3489 | -3055 | -1810 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -15118 | 3490 | -3050 | -1808 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1J | -15122 | 3490 | -3050 | -1810 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1K | -15118 | 3490 | -3057 | -1808 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1L | -15122 | 3490 | -3057 | -1810 | -- | -- | -- | -0.63 | 0.05 | 1.00 | 0.14 | 1.13 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -21252 | 1545 | -309 | -2010 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1B | -21253 | 1545 | -309 | -2011 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1C | -21252 | 1545 | -310 | -2010 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1D | -21253 | 1545 | -310 | -2011 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -21250 | 1548 | -308 | -2009 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1J | -21255 | 1548 | -308 | -2012 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1K | -21250 | 1548 | -310 | -2009 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1L | -21255 | 1548 | -310 | -2012 | -- | -- | -- | -0.88 | 0.08 | 1.00 | 0.06 | 1.32 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -27329 | 2544 | 2352 | -1956 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1B | -27334 | 2544 | 2352 | -1958 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1C | -27329 | 2544 | 2351 | -1956 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1D | -27334 | 2544 | 2351 | -1958 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -27326 | 2548 | 2354 | -1955 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1J | -27337 | 2548 | 2354 | -1959 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1K | -27326 | 2548 | 2349 | -1955 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1L | -27337 | 2548 | 2349 | -1959 | -- | -- | -- | -1.14 | 0.10 | 1.00 | 0.11 | 1.51 | 0.14 | 0.05 | 0.28 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 77 Descrizione: Maschio murario n. 77 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1B | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1C | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1D | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1J | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1K | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1L | -392 | 45 | 45 | 0 | -- | -- | -- | -0.23 | 0.02 | 1.00 | 0.03 | 0.84 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -3412 | 349 | 53 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1B | -3413 | 349 | 53 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1C | -3412 | 349 | 52 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1D | -3413 | 349 | 52 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -3411 | 349 | 53 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1J | -3414 | 349 | 53 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1K | -3411 | 349 | 52 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1L | -3414 | 349 | 52 | 0 | -- | -- | -- | -0.51 | 0.04 | 1.00 | 0.05 | 1.04 | 0.10 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -3273 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1B | -3273 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1C | -3273 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1D | -3273 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -3272 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1J | -3273 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1K | -3272 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1L | -3273 | 115 | 50 | 0 | -- | -- | -- | -0.98 | 0.09 | 1.00 | 0.03 | 1.39 | 0.05 | 0.00 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 112 Descrizione: Maschio murario n. 112
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -2333 | 490 | -93 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1B | -2334 | 490 | -93 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1C | -2333 | 490 | -94 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1D | -2334 | 490 | -94 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2332 | 491 | -93 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1J | -2334 | 491 | -93 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1K | -2332 | 491 | -94 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1L | -2334 | 491 | -94 | 0 | -- | -- | -- | -0.40 | 0.03 | 1.00 | 0.08 | 0.96 | 0.18 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -3164 | 1015 | 55 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1B | -3164 | 1015 | 55 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1C | -3164 | 1015 | 54 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1D | -3164 | 1015 | 54 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -3163 | 1016 | 56 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1J | -3165 | 1016 | 56 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1K | -3163 | 1016 | 53 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1L | -3165 | 1016 | 53 | 0 | -- | -- | -- | -0.54 | 0.05 | 1.00 | 0.17 | 1.07 | 0.33 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -3981 | 764 | 656 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1B | -3982 | 764 | 656 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1C | -3981 | 764 | 655 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1D | -3982 | 764 | 655 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -3979 | 767 | 656 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1J | -3983 | 767 | 656 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1K | -3979 | 767 | 654 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1L | -3983 | 767 | 654 | 0 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.13 | 1.17 | 0.22 | 0.00 | 0.42 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 114 Descrizione: Maschio murario n. 114
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -6515 | 662 | 183 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1B | -6516 | 662 | 183 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1C | -6515 | 662 | 183 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1D | -6516 | 662 | 183 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -6515 | 662 | 184 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1J | -6516 | 662 | 184 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1K | -6515 | 662 | 182 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1L | -6516 | 662 | 182 | -8 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.04 | 0.92 | 0.08 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -10364 | 2183 | 929 | -112 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1B | -10366 | 2183 | 929 | -112 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1C | -10364 | 2183 | 927 | -112 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1D | -10366 | 2183 | 927 | -112 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -10363 | 2183 | 930 | -112 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1J | -10367 | 2183 | 930 | -113 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1K | -10363 | 2183 | 926 | -112 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1L | -10367 | 2183 | 926 | -113 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.12 | 1.08 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -13393 | 4241 | 2428 | -1617 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1B | -13398 | 4241 | 2428 | -1617 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1C | -13393 | 4241 | 2425 | -1617 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1D | -13398 | 4241 | 2425 | -1617 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -13390 | 4244 | 2430 | -1618 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1J | -13401 | 4244 | 2430 | -1617 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1K | -13390 | 4244 | 2424 | -1618 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1L | -13401 | 4244 | 2424 | -1617 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.23 | 1.20 | 0.38 | 0.12 | 0.46 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 115 Descrizione: Maschio murario n. 115
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -18718 | 3306 | -511 | 4566 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1B | -18735 | 3306 | -511 | 4591 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1C | -18718 | 3306 | -521 | 4566 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1D | -18735 | 3306 | -521 | 4591 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -18706 | 3317 | -504 | 4548 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1J | -18747 | 3317 | -504 | 4609 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1K | -18706 | 3317 | -529 | 4548 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1L | -18747 | 3317 | -529 | 4609 | -- | -- | -- | -0.47 | 0.04 | 1.00 | 0.08 | 1.01 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -30124 | 4500 | 455 | 3846 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1B | -30140 | 4500 | 455 | 3853 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1C | -30124 | 4500 | 448 | 3846 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1D | -30140 | 4500 | 448 | 3853 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -30113 | 4516 | 459 | 3841 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1J | -30152 | 4516 | 459 | 3858 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1K | -30113 | 4516 | 443 | 3841 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1L | -30152 | 4516 | 443 | 3858 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.11 | 1.23 | 0.18 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -41092 | 4963 | 766 | 2539 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.12 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1B | -41122 | 4963 | 766 | 2548 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.12 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1C | -41092 | 4963 | 748 | 2539 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.12 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1D | -41122 | 4963 | 748 | 2548 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.12 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -41070 | 4981 | 778 | 2532 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.13 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1J | -41144 | 4981 | 778 | 2554 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.13 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1K | -41070 | 4981 | 736 | 2532 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.13 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1L | -41144 | 4981 | 736 | 2554 | -- | -- | -- | -1.03 | 0.09 | 1.00 | 0.13 | 1.43 | 0.17 | 0.03 | 0.05 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -5518 | 2052 | 291 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1B | -5521 | 2052 | 291 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1C | -5518 | 2052 | 288 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1D | -5521 | 2052 | 288 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -5516 | 2055 | 292 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1J | -5522 | 2055 | 292 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1K | -5516 | 2055 | 287 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1L | -5522 | 2055 | 287 | 0 | -- | -- | -- | -0.63 | 0.04 | 1.00 | 0.23 | 1.47 | 0.32 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -6951 | 2595 | 143 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1B | -6952 | 2595 | 143 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1C | -6951 | 2595 | 143 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1D | -6952 | 2595 | 143 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -6950 | 2600 | 143 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1J | -6953 | 2600 | 143 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1K | -6950 | 2600 | 142 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1L | -6953 | 2600 | 142 | 0 | -- | -- | -- | -0.79 | 0.05 | 1.00 | 0.30 | 1.59 | 0.37 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -7440 | 2855 | -78 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.02 | |
| 0 | 1B | -7443 | 2855 | -78 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.02 | |
| 0 | 1C | -7440 | 2855 | -79 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.03 | |
| 0 | 1D | -7443 | 2855 | -79 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -7438 | 2860 | -77 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.02 | |
| 0 | 1J | -7445 | 2860 | -77 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.02 | |
| 0 | 1K | -7438 | 2860 | -80 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.03 | |
| 0 | 1L | -7445 | 2860 | -80 | 0 | -- | -- | -- | -0.85 | 0.05 | 1.00 | 0.33 | 1.64 | 0.40 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2476 | 131 | -79 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1B | -2476 | 131 | -79 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1C | -2476 | 131 | -80 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1D | -2476 | 131 | -80 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -2476 | 132 | -79 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1J | -2475 | 132 | -79 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1K | -2476 | 132 | -81 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1L | -2475 | 132 | -81 | 0 | -- | -- | -- | -0.73 | 0.04 | 1.00 | 0.04 | 1.55 | 0.05 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -10115 | 1632 | -51 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1B | -10117 | 1632 | -51 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1C | -10115 | 1632 | -54 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1D | -10117 | 1632 | -54 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -10115 | 1634 | -50 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1J | -10118 | 1634 | -50 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1K | -10115 | 1634 | -56 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1L | -10118 | 1634 | -56 | 0 | -- | -- | -- | -1.12 | 0.07 | 1.00 | 0.18 | 1.84 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -8495 | 2073 | -100 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1B | -8496 | 2073 | -100 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1C | -8495 | 2073 | -101 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1D | -8496 | 2073 | -101 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -8493 | 2074 | -99 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1J | -8498 | 2074 | -99 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1K | -8493 | 2074 | -102 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1L | -8498 | 2074 | -102 | 0 | -- | -- | -- | -1.87 | 0.11 | 1.00 | 0.46 | 2.41 | 0.38 | 0.00 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 133 Descrizione: Maschio murario n. 133
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3407 | 699 | -32 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1B | -3408 | 699 | -32 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1C | -3407 | 699 | -33 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1D | -3408 | 699 | -33 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3406 | 699 | -32 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1J | -3409 | 699 | -32 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1K | -3406 | 699 | -33 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1L | -3409 | 699 | -33 | 0 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.07 | 0.92 | 0.16 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -5609 | 1323 | 175 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1B | -5611 | 1323 | 175 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1C | -5609 | 1323 | 174 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1D | -5611 | 1323 | 174 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -5608 | 1324 | 176 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1J | -5612 | 1324 | 176 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1K | -5608 | 1324 | 173 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1L | -5612 | 1324 | 173 | 0 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.14 | 1.09 | 0.25 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -8137 | 1568 | 729 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1B | -8138 | 1568 | 729 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1C | -8137 | 1568 | 728 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1D | -8138 | 1568 | 728 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -8136 | 1572 | 730 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1J | -8139 | 1572 | 730 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1K | -8136 | 1572 | 727 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1L | -8139 | 1572 | 727 | 0 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.16 | 1.28 | 0.25 | 0.00 | 0.23 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 134 Descrizione: Maschio murario n. 134
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -4086 | 65 | 112 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1B | -4086 | 65 | 112 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1C | -4086 | 65 | 111 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1D | -4086 | 65 | 111 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4086 | 66 | 112 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1J | -4086 | 66 | 112 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1K | -4086 | 66 | 110 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1L | -4086 | 66 | 110 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.01 | 0.93 | 0.01 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -6609 | 178 | 487 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1B | -6611 | 178 | 487 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1C | -6609 | 178 | 486 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1D | -6611 | 178 | 486 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -6607 | 179 | 488 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1J | -6612 | 179 | 488 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1K | -6607 | 179 | 485 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1L | -6612 | 179 | 485 | 0 | -- | -- | -- | -0.58 | 0.05 | 1.00 | 0.02 | 1.09 | 0.03 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -9626 | 287 | 1222 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1B | -9630 | 287 | 1222 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1C | -9626 | 287 | 1220 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1D | -9630 | 287 | 1220 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -9623 | 288 | 1224 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1J | -9632 | 288 | 1224 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1K | -9623 | 288 | 1219 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1L | -9632 | 288 | 1219 | 0 | -- | -- | -- | -0.84 | 0.07 | 1.00 | 0.03 | 1.29 | 0.04 | 0.00 | 0.33 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -14654 | 1978 | 603 | 55 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1B | -14659 | 1978 | 603 | 56 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1C | -14654 | 1978 | 593 | 55 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1D | -14659 | 1978 | 593 | 56 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -14650 | 1986 | 610 | 54 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1J | -14662 | 1986 | 610 | 57 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1K | -14650 | 1986 | 586 | 54 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1L | -14662 | 1986 | 586 | 57 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.09 | 1.15 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -17397 | 2769 | 461 | -431 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1B | -17408 | 2769 | 461 | -431 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1C | -17397 | 2769 | 458 | -431 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1D | -17408 | 2769 | 458 | -431 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -17390 | 2778 | 462 | -430 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1J | -17415 | 2778 | 462 | -432 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1K | -17390 | 2778 | 457 | -430 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1L | -17415 | 2778 | 457 | -432 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.25 | 0.20 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -21239 | 2763 | 603 | -922 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1B | -21261 | 2763 | 603 | -920 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1C | -21239 | 2763 | 594 | -922 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1D | -21261 | 2763 | 594 | -920 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -21223 | 2769 | 609 | -923 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1J | -21277 | 2769 | 609 | -919 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1K | -21223 | 2769 | 587 | -923 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1L | -21277 | 2769 | 587 | -919 | -- | -- | -- | -0.91 | 0.08 | 1.00 | 0.12 | 1.34 | 0.18 | 0.03 | 0.07 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **10** Tabella: **Tabella muri interni**
Descrizione: **Muri 3p-4p**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 136 Descrizione: Maschio murario n. 136
altezza calcolata: 410.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -8262 | 1003 | -1038 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1B | -8263 | 1003 | -1038 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1C | -8262 | 1003 | -1039 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1D | -8263 | 1003 | -1039 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -8262 | 1005 | -1038 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1J | -8263 | 1005 | -1038 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1K | -8262 | 1005 | -1039 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1L | -8263 | 1005 | -1039 | -43 | -- | -- | -- | -1.46 | 0.13 | 1.00 | 0.18 | 1.76 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -25452 | 4076 | -539 | 151 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1B | -25453 | 4076 | -539 | 151 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1C | -25452 | 4076 | -542 | 151 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1D | -25453 | 4076 | -542 | 151 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -25451 | 4078 | -538 | 152 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1J | -25454 | 4078 | -538 | 151 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1K | -25451 | 4078 | -543 | 152 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1L | -25454 | 4078 | -543 | 151 | -- | -- | -- | -1.83 | 0.16 | 1.00 | 0.29 | 2.03 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -13702 | 448 | 949 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1B | -13705 | 448 | 949 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1C | -13702 | 448 | 947 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1D | -13705 | 448 | 947 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -13701 | 450 | 949 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1J | -13706 | 450 | 949 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1K | -13701 | 450 | 947 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1L | -13706 | 450 | 947 | 233 | -- | -- | -- | -1.97 | 0.17 | 1.00 | 0.06 | 2.14 | 0.06 | 0.04 | 0.25 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri esterni intonacati**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 24 Descrizione: Maschio murario n. 24 su Cortile
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -5012 | 2289 | -102 | 605 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1B | -5019 | 2289 | -102 | 605 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1C | -5012 | 2289 | -103 | 605 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1D | -5019 | 2289 | -103 | 605 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -5007 | 2294 | -101 | 604 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1J | -5024 | 2294 | -101 | 605 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1K | -5007 | 2294 | -104 | 604 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1L | -5024 | 2294 | -104 | 605 | -- | -- | -- | -0.52 | 0.03 | 1.00 | 0.24 | 1.39 | 0.34 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -6010 | 3916 | -43 | 1140 | -- | -- | -- | -0.54 | 0.03 | 1.00 | 0.35 | 1.41 | 0.50 | -- | -- | |
| ½ | 1B | -6022 | 3916 | -43 | 1142 | -- | -- | -- | -0.55 | 0.03 | 1.00 | 0.35 | 1.41 | 0.50 | -- | -- | |
| ½ | 1C | -6010 | 3916 | -45 | 1140 | -- | -- | -- | -0.54 | 0.03 | 1.00 | 0.35 | 1.41 | 0.50 | -- | -- | |
| ½ | 1D | -6022 | 3916 | -45 | 1142 | -- | -- | -- | -0.55 | 0.03 | 1.00 | 0.35 | 1.41 | 0.50 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -6001 | 3922 | -41 | 1139 | -- | -- | -- | -0.54 | 0.03 | 1.00 | 0.36 | 1.41 | 0.50 | -- | -- | |
| ½ | 1J | -6031 | 3922 | -41 | 1143 | -- | -- | -- | -0.55 | 0.03 | 1.00 | 0.36 | 1.41 | 0.50 | -- | -- | |
| ½ | 1K | -6001 | 3922 | -47 | 1139 | -- | -- | -- | -0.54 | 0.03 | 1.00 | 0.36 | 1.41 | 0.50 | -- | -- | |
| ½ | 1L | -6031 | 3922 | -47 | 1143 | -- | -- | -- | -0.55 | 0.03 | 1.00 | 0.36 | 1.41 | 0.50 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -3513 | 2875 | -43 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.43 | 0.04 | 0.03 | |
| 0 | 1B | -3520 | 2875 | -43 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.43 | 0.04 | 0.03 | |
| 0 | 1C | -3513 | 2875 | -44 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.43 | 0.04 | 0.03 | |
| 0 | 1D | -3520 | 2875 | -44 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.43 | 0.04 | 0.03 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -3508 | 2879 | -42 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.44 | 0.04 | 0.03 | |
| 0 | 1J | -3525 | 2879 | -42 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.44 | 0.04 | 0.03 | |
| 0 | 1K | -3508 | 2879 | -45 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.44 | 0.04 | 0.03 | |
| 0 | 1L | -3525 | 2879 | -45 | -84 | -- | -- | -- | -0.33 | 0.02 | 1.00 | 0.27 | 1.25 | 0.44 | 0.04 | 0.03 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Muri estrni intonacati eccentrici**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **2.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **discorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 30 Descrizione: Maschio murario n. 30 su Cortile
altezza calcolata: 350.00 cm

| P o s | c. c. | Fx kg | V kg | My kg * m | Mz kg * m | $es_1/e_v$ cm | $es_2/e_b$ cm | $\phi/\phi_t/\phi_b$ | Fx/A kg/cm² | $I_{RN}$ | $\beta$ | $\tau$ kg/cm² | $f_{VK}$ kg/cm² | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l | 1A | -1008 | 473 | 28 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1B | -1010 | 473 | 28 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1C | -1008 | 473 | 27 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1D | -1010 | 473 | 27 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -1006 | 474 | 28 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1J | -1012 | 474 | 28 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1K | -1006 | 474 | 27 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1L | -1012 | 474 | 27 | 0 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.07 | 1.12 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -1378 | 1583 | 76 | -28 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1B | -1392 | 1583 | 76 | -27 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1C | -1378 | 1583 | 76 | -28 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1D | -1392 | 1583 | 76 | -27 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -1369 | 1593 | 76 | -30 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1J | -1401 | 1593 | 76 | -25 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1K | -1369 | 1593 | 75 | -30 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1L | -1401 | 1593 | 75 | -25 | -- | -- | -- | -0.16 | 0.01 | 1.00 | 0.18 | 1.12 | 0.33 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -1408 | 71 | 64 | 0 | -- | -- | -- | -0.18 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1B | -1417 | 71 | 64 | 0 | -- | -- | -- | -0.18 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1C | -1408 | 71 | 63 | 0 | -- | -- | -- | -0.18 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1D | -1417 | 71 | 63 | 0 | -- | -- | -- | -0.18 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -1402 | 75 | 64 | 0 | -- | -- | -- | -0.18 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1J | -1424 | 75 | 64 | 0 | -- | -- | -- | -0.19 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1K | -1402 | 75 | 63 | 0 | -- | -- | -- | -0.18 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1L | -1424 | 75 | 63 | 0 | -- | -- | -- | -0.19 | 0.01 | 1.00 | 0.01 | 1.14 | 0.02 | 0.00 | 0.13 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 36 Descrizione: Maschio murario n. 36 su Cortile
altezza calcolata: 350.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2002 | 951 | 6 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1B | -2003 | 951 | 6 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1C | -2002 | 951 | 6 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1D | -2003 | 951 | 6 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2002 | 951 | 7 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1J | -2003 | 951 | 7 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1K | -2002 | 951 | 6 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1L | -2003 | 951 | 6 | -188 | -- | -- | -- | -0.18 | 0.02 | 1.00 | 0.09 | 0.80 | 0.22 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -4902 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1B | -4903 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1C | -4902 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1D | -4903 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -4902 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1J | -4903 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1K | -4902 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1L | -4903 | 1187 | 125 | -671 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.11 | 1.00 | 0.22 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -8206 | 691 | 443 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1B | -8206 | 691 | 443 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1C | -8206 | 691 | 442 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1D | -8206 | 691 | 442 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -8206 | 691 | 443 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1J | -8206 | 691 | 443 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1K | -8206 | 691 | 441 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1L | -8206 | 691 | 441 | -760 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.06 | 1.23 | 0.10 | 0.12 | 0.18 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 55 Descrizione: Maschio murario n. 55 Interno lato scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1145 | 1079 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.34 | 0.93 | 0.74 | -- | -- | |
| l | 1B | -1147 | 1079 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.34 | 0.93 | 0.74 | -- | -- | |
| l | 1C | -1145 | 1079 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.34 | 0.93 | 0.74 | -- | -- | |
| l | 1D | -1147 | 1079 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.34 | 0.93 | 0.74 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1145 | 1080 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.35 | 0.93 | 0.74 | -- | -- | |
| l | 1J | -1147 | 1080 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.35 | 0.94 | 0.74 | -- | -- | |
| l | 1K | -1145 | 1080 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.35 | 0.93 | 0.74 | -- | -- | |
| l | 1L | -1147 | 1080 | 59 | 0 | -- | -- | -- | -0.37 | 0.03 | 1.00 | 0.35 | 0.94 | 0.74 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -2984 | 693 | 1 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1B | -2986 | 693 | 1 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1C | -2984 | 693 | 1 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1D | -2986 | 693 | 1 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -2983 | 693 | 1 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1J | -2988 | 693 | 1 | 0 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1K | -2983 | 693 | 1 | 0 | -- | -- | -- | -0.95 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1L | -2988 | 693 | 1 | 0 | -- | -- | -- | -0.96 | 0.08 | 1.00 | 0.22 | 1.38 | 0.32 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -4606 | 459 | 29 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.76 | 0.17 | 0.00 | 0.02 | |
| 0 | 1B | -4609 | 459 | 29 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.77 | 0.17 | 0.00 | 0.02 | |
| 0 | 1C | -4606 | 459 | 29 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.76 | 0.17 | 0.00 | 0.02 | |
| 0 | 1D | -4609 | 459 | 29 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.77 | 0.17 | 0.00 | 0.02 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -4604 | 459 | 30 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.76 | 0.17 | 0.00 | 0.02 | |
| 0 | 1J | -4611 | 459 | 30 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.77 | 0.17 | 0.00 | 0.02 | |
| 0 | 1K | -4604 | 459 | 28 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.76 | 0.17 | 0.00 | 0.02 | |
| 0 | 1L | -4611 | 459 | 28 | 0 | -- | -- | -- | -1.47 | 0.13 | 1.00 | 0.15 | 1.77 | 0.17 | 0.00 | 0.02 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 56 Descrizione: Maschio murario n. 56 interno lato scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2757 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1B | -2761 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1C | -2757 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1D | -2761 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2754 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1J | -2763 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1K | -2754 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1L | -2763 | 475 | -18 | -160 | -- | -- | -- | -0.35 | 0.03 | 1.00 | 0.06 | 0.92 | 0.13 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -6262 | 958 | 153 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1B | -6267 | 958 | 153 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1C | -6262 | 958 | 152 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1D | -6267 | 958 | 152 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -6258 | 961 | 153 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1J | -6271 | 961 | 153 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1K | -6258 | 961 | 152 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1L | -6271 | 961 | 152 | -276 | -- | -- | -- | -0.79 | 0.07 | 1.00 | 0.12 | 1.25 | 0.19 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -7893 | 989 | 501 | 399 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.40 | 0.18 | 0.09 | 0.22 | |
| 0 | 1B | -7900 | 989 | 501 | 400 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.41 | 0.18 | 0.09 | 0.22 | |
| 0 | 1C | -7893 | 989 | 500 | 399 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.40 | 0.18 | 0.09 | 0.22 | |
| 0 | 1D | -7900 | 989 | 500 | 400 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.41 | 0.18 | 0.09 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -7888 | 991 | 501 | 399 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.40 | 0.18 | 0.09 | 0.22 | |
| 0 | 1J | -7906 | 991 | 501 | 400 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.41 | 0.18 | 0.09 | 0.22 | |
| 0 | 1K | -7888 | 991 | 499 | 399 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.40 | 0.18 | 0.09 | 0.22 | |
| 0 | 1L | -7906 | 991 | 499 | 400 | -- | -- | -- | -0.99 | 0.09 | 1.00 | 0.12 | 1.41 | 0.18 | 0.09 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 57 Descrizione: Maschio murario n. 57 interno lato scala
altezza calcolata: 350.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -3201 | 254 | 57 | -290 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1B | -3203 | 254 | 57 | -289 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1C | -3201 | 254 | 57 | -290 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1D | -3203 | 254 | 57 | -289 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3199 | 255 | 57 | -290 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1J | -3204 | 255 | 57 | -288 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1K | -3199 | 255 | 57 | -290 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1L | -3204 | 255 | 57 | -288 | -- -- | -- | -0.23 | 0.02 | 1.00 | 0.02 | 0.83 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -6898 | 2106 | 224 | 74 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.03 | 0.29 | -- | -- | |
| ½ | 1B | -6902 | 2106 | 224 | 75 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.03 | 0.29 | -- | -- | |
| ½ | 1C | -6898 | 2106 | 224 | 74 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.03 | 0.29 | -- | -- | |
| ½ | 1D | -6902 | 2106 | 224 | 75 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.03 | 0.29 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -6894 | 2110 | 224 | 73 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.02 | 0.29 | -- | -- | |
| ½ | 1J | -6906 | 2110 | 224 | 75 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.03 | 0.29 | -- | -- | |
| ½ | 1K | -6894 | 2110 | 224 | 73 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.02 | 0.29 | -- | -- | |
| ½ | 1L | -6906 | 2110 | 224 | 75 | -- -- | -- | -0.49 | 0.04 | 1.00 | 0.15 | 1.03 | 0.29 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -10889 | 1793 | 329 | 1151 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.20 | 0.11 | 0.10 | |
| 0 | 1B | -10894 | 1793 | 329 | 1153 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.20 | 0.11 | 0.10 | |
| 0 | 1C | -10889 | 1793 | 329 | 1151 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.20 | 0.11 | 0.10 | |
| 0 | 1D | -10894 | 1793 | 329 | 1153 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.20 | 0.11 | 0.10 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -10886 | 1797 | 329 | 1150 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.21 | 0.11 | 0.10 | |
| 0 | 1J | -10898 | 1797 | 329 | 1155 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.21 | 0.11 | 0.10 | |
| 0 | 1K | -10886 | 1797 | 329 | 1150 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.21 | 0.11 | 0.10 | |
| 0 | 1L | -10898 | 1797 | 329 | 1155 | -- -- | -- | -0.77 | 0.07 | 1.00 | 0.13 | 1.24 | 0.21 | 0.11 | 0.10 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 58 Descrizione: Maschio murario n. 58 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3171 | 2067 | 117 | -240 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1B | -3172 | 2067 | 117 | -241 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1C | -3171 | 2067 | 117 | -240 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1D | -3172 | 2067 | 117 | -241 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3170 | 2068 | 118 | -240 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1J | -3172 | 2068 | 118 | -241 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1K | -3170 | 2068 | 116 | -240 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1L | -3172 | 2068 | 116 | -241 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.16 | 0.84 | 0.38 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -8845 | 2662 | 224 | -1014 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.20 | 1.17 | 0.35 | -- | -- | |
| ½ | 1B | -8846 | 2662 | 224 | -1015 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.20 | 1.17 | 0.35 | -- | -- | |
| ½ | 1C | -8845 | 2662 | 224 | -1014 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.20 | 1.17 | 0.35 | -- | -- | |
| ½ | 1D | -8846 | 2662 | 224 | -1015 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.20 | 1.17 | 0.35 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -8844 | 2664 | 225 | -1014 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.21 | 1.17 | 0.35 | -- | -- | |
| ½ | 1J | -8847 | 2664 | 225 | -1015 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.21 | 1.17 | 0.35 | -- | -- | |
| ½ | 1K | -8844 | 2664 | 224 | -1014 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.21 | 1.17 | 0.35 | -- | -- | |
| ½ | 1L | -8847 | 2664 | 224 | -1015 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.21 | 1.17 | 0.35 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -15099 | 3998 | 948 | 498 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1B | -15101 | 3998 | 948 | 497 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1C | -15099 | 3998 | 947 | 498 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1D | -15101 | 3998 | 947 | 497 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -15097 | 3999 | 948 | 498 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1J | -15103 | 3999 | 948 | 497 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1K | -15097 | 3999 | 947 | 498 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1L | -15103 | 3999 | 947 | 497 | -- | -- | -- | -1.16 | 0.10 | 1.00 | 0.31 | 1.53 | 0.40 | 0.04 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni intonacati**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **34.00** kg/cmq fvk0: **1.00** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 59 Descrizione: Maschio murario n. 59 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1B | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1C | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1D | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1I | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1J | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1K | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1L | -1699 | 220 | 75 | 15 | -- | -- | -- | -0.17 | 0.01 | 1.00 | 0.02 | 1.12 | 0.04 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1A | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1B | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1C | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1D | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1I | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1J | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1K | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1L | -2550 | 994 | 160 | 70 | -- | -- | -- | -0.25 | 0.01 | 1.00 | 0.10 | 1.19 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | -- | -- | |
| 0 | 1A | -2724 | 2709 | -40 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1B | -2725 | 2709 | -40 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1C | -2724 | 2709 | -41 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1D | -2725 | 2709 | -41 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -2724 | 2709 | -39 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1J | -2725 | 2709 | -39 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1K | -2724 | 2709 | -41 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1L | -2725 | 2709 | -41 | -340 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.26 | 1.20 | 0.44 | 0.19 | 0.04 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 60 Descrizione: Maschio murario n. 60
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1B | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1C | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1D | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1J | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1K | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1L | -3307 | 524 | 38 | 0 | -- | -- | -- | -0.78 | 0.07 | 1.00 | 0.12 | 1.24 | 0.20 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1B | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1C | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1D | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1J | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1K | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1L | -3174 | 122 | -83 | 0 | -- | -- | -- | -0.75 | 0.06 | 1.00 | 0.03 | 1.22 | 0.05 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -3037 | 38 | -157 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.20 | 0.01 | 0.00 | 0.17 | |
| 0 | 1B | -3038 | 38 | -157 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.20 | 0.01 | 0.00 | 0.17 | |
| 0 | 1C | -3037 | 38 | -157 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.20 | 0.01 | 0.00 | 0.17 | |
| 0 | 1D | -3038 | 38 | -157 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.20 | 0.01 | 0.00 | 0.17 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -3036 | 38 | -156 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.19 | 0.01 | 0.00 | 0.17 | |
| 0 | 1J | -3038 | 38 | -156 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.20 | 0.01 | 0.00 | 0.17 | |
| 0 | 1K | -3036 | 38 | -157 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.19 | 0.01 | 0.00 | 0.17 | |
| 0 | 1L | -3038 | 38 | -157 | 0 | -- | -- | -- | -0.71 | 0.06 | 1.00 | 0.01 | 1.20 | 0.01 | 0.00 | 0.17 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 62 Descrizione: Maschio murario n. 62
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -5427 | 677 | 82 | -889 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1B | -5428 | 677 | 82 | -890 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1C | -5427 | 677 | 82 | -889 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1D | -5428 | 677 | 82 | -890 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -5427 | 677 | 83 | -889 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1J | -5428 | 677 | 83 | -890 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1K | -5427 | 677 | 81 | -889 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1L | -5428 | 677 | 81 | -890 | -- | -- | -- | -0.17 | 0.02 | 1.00 | 0.02 | 0.79 | 0.06 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -13891 | 2472 | -97 | -2256 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1B | -13892 | 2472 | -97 | -2257 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1C | -13891 | 2472 | -98 | -2256 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1D | -13892 | 2472 | -98 | -2257 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -13891 | 2473 | -96 | -2255 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1J | -13892 | 2473 | -96 | -2257 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1K | -13891 | 2473 | -98 | -2255 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1L | -13892 | 2473 | -98 | -2257 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.08 | 0.99 | 0.16 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -20458 | 5734 | -835 | 125 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.13 | |
| 0 | 1B | -20459 | 5734 | -835 | 125 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.13 | |
| 0 | 1C | -20458 | 5734 | -838 | 125 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.14 | |
| 0 | 1D | -20459 | 5734 | -838 | 125 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -20457 | 5734 | -832 | 126 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.13 | |
| 0 | 1J | -20460 | 5734 | -832 | 125 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.13 | |
| 0 | 1K | -20457 | 5734 | -840 | 126 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.14 | |
| 0 | 1L | -20460 | 5734 | -840 | 125 | -- | -- | -- | -0.66 | 0.06 | 1.00 | 0.18 | 1.15 | 0.32 | 0.00 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 63 Descrizione: Maschio murario n. 63
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -3359 | 1102 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1B | -3359 | 1102 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1C | -3359 | 1102 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1D | -3359 | 1102 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -3359 | 1103 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1J | -3359 | 1103 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1K | -3359 | 1103 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1L | -3359 | 1103 | -19 | 249 | -- | -- | -- | -0.68 | 0.06 | 1.00 | 0.22 | 1.17 | 0.38 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -3757 | 862 | 115 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1B | -3757 | 862 | 115 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1C | -3757 | 862 | 115 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1D | -3757 | 862 | 115 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -3757 | 863 | 116 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1J | -3757 | 863 | 116 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1K | -3757 | 863 | 115 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1L | -3757 | 863 | 115 | 16 | -- | -- | -- | -0.76 | 0.07 | 1.00 | 0.18 | 1.23 | 0.28 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -4063 | 1007 | 170 | -118 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1B | -4064 | 1007 | 170 | -118 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1C | -4063 | 1007 | 168 | -118 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1D | -4064 | 1007 | 168 | -118 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -4062 | 1007 | 171 | -118 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1J | -4064 | 1007 | 171 | -118 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1K | -4062 | 1007 | 167 | -118 | -- | -- | -- | -0.82 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1L | -4064 | 1007 | 167 | -118 | -- | -- | -- | -0.83 | 0.07 | 1.00 | 0.20 | 1.28 | 0.32 | 0.08 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 66 Descrizione: Maschio murario n. 66 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1463 | 215 | -47 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1B | -1463 | 215 | -47 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1C | -1463 | 215 | -47 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1D | -1463 | 215 | -47 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1463 | 215 | -47 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1J | -1464 | 215 | -47 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1K | -1463 | 215 | -48 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1L | -1464 | 215 | -48 | 81 | -- | -- | -- | -0.29 | 0.03 | 1.00 | 0.04 | 0.88 | 0.10 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -3627 | 328 | -194 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1B | -3627 | 328 | -194 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1C | -3627 | 328 | -195 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1D | -3627 | 328 | -195 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -3626 | 328 | -194 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1J | -3627 | 328 | -194 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1K | -3626 | 328 | -195 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1L | -3627 | 328 | -195 | 62 | -- | -- | -- | -0.73 | 0.06 | 1.00 | 0.07 | 1.21 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -5309 | 949 | 103 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1B | -5310 | 949 | 103 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1C | -5309 | 949 | 102 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1D | -5310 | 949 | 102 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -5309 | 949 | 104 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1J | -5310 | 949 | 104 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1K | -5309 | 949 | 102 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1L | -5310 | 949 | 102 | 25 | -- | -- | -- | -1.07 | 0.09 | 1.00 | 0.19 | 1.46 | 0.26 | 0.02 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 67 Descrizione: Maschio murario n. 67 interno scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2625 | 274 | 18 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1B | -2625 | 274 | 18 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1C | -2625 | 274 | 18 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1D | -2625 | 274 | 18 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2625 | 274 | 19 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1J | -2625 | 274 | 19 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1K | -2625 | 274 | 18 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1L | -2625 | 274 | 18 | 112 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.01 | 0.74 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -8689 | 728 | 120 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1B | -8690 | 728 | 120 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1C | -8689 | 728 | 119 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1D | -8690 | 728 | 119 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -8689 | 728 | 121 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1J | -8690 | 728 | 121 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1K | -8689 | 728 | 119 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1L | -8690 | 728 | 119 | 1134 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -13647 | 628 | 282 | 562 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1B | -13648 | 628 | 282 | 561 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1C | -13647 | 628 | 281 | 562 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1D | -13648 | 628 | 281 | 561 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -13646 | 628 | 282 | 562 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1J | -13649 | 628 | 282 | 561 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1K | -13646 | 628 | 280 | 562 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1L | -13649 | 628 | 280 | 561 | -- | -- | -- | -0.57 | 0.05 | 1.00 | 0.03 | 1.08 | 0.05 | 0.03 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 68 Descrizione: Maschio murario n. 68 interno scala
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -1430 | 4 | 42 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1B | -1430 | 4 | 42 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1C | -1430 | 4 | 41 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1D | -1430 | 4 | 41 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -1430 | 4 | 42 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1J | -1430 | 4 | 42 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1K | -1430 | 4 | 41 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1L | -1430 | 4 | 41 | -9 | -- | -- | -- | -0.10 | 0.01 | 1.00 | 0.00 | 0.74 | 0.00 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -4273 | 135 | 137 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1B | -4274 | 135 | 137 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1C | -4273 | 135 | 136 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1D | -4274 | 135 | 136 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -4273 | 135 | 137 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1J | -4274 | 135 | 137 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1K | -4273 | 135 | 135 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1L | -4274 | 135 | 135 | -102 | -- | -- | -- | -0.31 | 0.03 | 1.00 | 0.01 | 0.89 | 0.02 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -6373 | 611 | 140 | 114 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.07 | |
| 0 | 1B | -6374 | 611 | 140 | 113 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.07 | |
| 0 | 1C | -6373 | 611 | 139 | 114 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.07 | |
| 0 | 1D | -6374 | 611 | 139 | 113 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.07 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -6372 | 612 | 141 | 114 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.07 | |
| 0 | 1J | -6375 | 612 | 141 | 113 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.07 | |
| 0 | 1K | -6372 | 612 | 138 | 114 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.06 | |
| 0 | 1L | -6375 | 612 | 138 | 113 | -- | -- | -- | -0.46 | 0.04 | 1.00 | 0.04 | 1.01 | 0.09 | 0.02 | 0.06 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 74 Descrizione: Maschio murario n. 74
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -839 | 392 | -21 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1B | -839 | 392 | -21 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1C | -839 | 392 | -21 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1D | -839 | 392 | -21 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -839 | 392 | -21 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1J | -839 | 392 | -21 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1K | -839 | 392 | -22 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1L | -839 | 392 | -22 | 0 | -- | -- | -- | -0.24 | 0.02 | 1.00 | 0.11 | 0.84 | 0.26 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -1363 | 641 | -38 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1B | -1363 | 641 | -38 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1C | -1363 | 641 | -38 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1D | -1363 | 641 | -38 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -1363 | 641 | -38 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1J | -1363 | 641 | -38 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1K | -1363 | 641 | -39 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1L | -1363 | 641 | -39 | 0 | -- | -- | -- | -0.38 | 0.03 | 1.00 | 0.18 | 0.95 | 0.38 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1B | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1C | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1D | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1J | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1K | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1L | -1934 | 499 | -88 | 0 | -- | -- | -- | -0.55 | 0.05 | 1.00 | 0.14 | 1.07 | 0.26 | 0.00 | 0.14 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 75 Descrizione: Maschio murario n. 75
altezza calcolata: 350.00 cm

| P o s | c. c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | | $kg/cm^2$ | | | | |
| l | 1A | -4788 | 265 | -1057 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1B | -4791 | 265 | -1057 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1C | -4788 | 265 | -1058 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1D | -4791 | 265 | -1058 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -4787 | 265 | -1057 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1J | -4792 | 265 | -1057 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1K | -4787 | 265 | -1058 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1L | -4792 | 265 | -1058 | 190 | -- | -- | -- | -0.72 | 0.06 | 1.00 | 0.04 | 1.20 | 0.07 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -7493 | 540 | -467 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1B | -7497 | 540 | -467 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1C | -7493 | 540 | -468 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1D | -7497 | 540 | -468 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -7490 | 541 | -466 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1J | -7500 | 541 | -466 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1K | -7490 | 541 | -468 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1L | -7500 | 541 | -468 | -11 | -- | -- | -- | -1.12 | 0.10 | 1.00 | 0.08 | 1.50 | 0.11 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -8074 | 275 | 870 | 11 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.04 | 1.57 | 0.05 | 0.00 | 0.35 | |
| 0 | 1B | -8082 | 275 | 870 | 11 | -- | -- | -- | -1.21 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | 0.00 | 0.35 | |
| 0 | 1C | -8074 | 275 | 869 | 11 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.04 | 1.57 | 0.05 | 0.00 | 0.35 | |
| 0 | 1D | -8082 | 275 | 869 | 11 | -- | -- | -- | -1.21 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | 0.00 | 0.35 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -8069 | 276 | 872 | 11 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.04 | 1.56 | 0.05 | 0.00 | 0.35 | |
| 0 | 1J | -8088 | 276 | 872 | 11 | -- | -- | -- | -1.21 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | 0.00 | 0.35 | |
| 0 | 1K | -8069 | 276 | 867 | 11 | -- | -- | -- | -1.21 | 0.10 | 1.00 | 0.04 | 1.56 | 0.05 | 0.00 | 0.35 | |
| 0 | 1L | -8088 | 276 | 867 | 11 | -- | -- | -- | -1.21 | 0.11 | 1.00 | 0.04 | 1.57 | 0.05 | 0.00 | 0.35 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 117 Descrizione: Maschio murario n. 117 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -804 | 80 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1B | -804 | 80 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1C | -804 | 80 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1D | -804 | 80 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -803 | 81 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1J | -804 | 81 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1K | -803 | 81 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1L | -804 | 81 | 85 | 0 | -- | -- | -- | -0.12 | 0.01 | 1.00 | 0.01 | 0.75 | 0.03 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -1871 | 352 | 191 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1B | -1873 | 352 | 191 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1C | -1871 | 352 | 191 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1D | -1873 | 352 | 191 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -1870 | 353 | 191 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1J | -1874 | 353 | 191 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1K | -1870 | 353 | 190 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1L | -1874 | 353 | 190 | 0 | -- | -- | -- | -0.27 | 0.02 | 1.00 | 0.05 | 0.87 | 0.12 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -3089 | 1118 | 229 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1B | -3090 | 1118 | 229 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1C | -3089 | 1118 | 228 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1D | -3090 | 1118 | 228 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -3088 | 1120 | 231 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1J | -3091 | 1120 | 231 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1K | -3088 | 1120 | 227 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1L | -3091 | 1120 | 227 | 0 | -- | -- | -- | -0.45 | 0.04 | 1.00 | 0.16 | 1.00 | 0.33 | 0.00 | 0.22 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 119 Descrizione: Maschio murario n. 119 interno
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ / $I_{rM}$ | $I_{rMy}$ / $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -173 | 526 | 57 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1B | -173 | 526 | 57 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1C | -173 | 526 | 56 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1D | -173 | 526 | 56 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -172 | 527 | 57 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1J | -174 | 527 | 57 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1K | -172 | 527 | 56 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1L | -174 | 527 | 56 | 0 | -- | -- | -- | -0.05 | 0.00 | 1.00 | 0.15 | 0.70 | 0.43 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -388 | 465 | 162 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1B | -390 | 465 | 162 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1C | -388 | 465 | 162 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1D | -390 | 465 | 162 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -387 | 466 | 163 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1J | -391 | 466 | 163 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1K | -387 | 466 | 162 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1L | -391 | 466 | 162 | 0 | -- | -- | -- | -0.11 | 0.01 | 1.00 | 0.13 | 0.74 | 0.36 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -1256 | 102 | 80 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1B | -1257 | 102 | 80 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1C | -1256 | 102 | 79 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1D | -1257 | 102 | 79 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -1255 | 103 | 81 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1J | -1257 | 103 | 81 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1K | -1255 | 103 | 79 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1L | -1257 | 103 | 79 | 0 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.03 | 0.93 | 0.06 | 0.00 | 0.19 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# Verifica dei maschi murari alle combinazioni di carico sismiche – $a_g/g$ pari al 75% del valore di progetto

Lavoro: **Qm Per verifica Sisma** Intestazione lavoro: **Progetto**
Elem.: **MASCHIO (piastra)** Gruppo: **11** Tabella: **Tabella muri interni**
Descrizione: **Muri 4p-Tetto**
Tipo di verifica: **Stato limite** fk: **23.00** kg/cmq fvk0: **0.66** kg/cmq
Coeff. contributo $\sigma_n$: **0.75** $\beta$, coeff. parz. sez.: **1.00**
d1: **0.00** cm d2 / t: **0.1660** Effetti di d1 e d2: **concorde** Calcolo di ev: **NON abilitato**
ea / h: **1 / 200.00** fatt. laterale di vincolo $\rho$: **1.00**

Maschio num. 135 Descrizione: Maschio murario n. 135
altezza calcolata: 350.00 cm

| Pos | c. | Fx | V | My | Mz | $es_1/e_v$ | $es_2/e_b$ | $\phi/\phi_t/\phi_b$ | Fx/A | $I_{RN}$ | $\beta$ | $\tau$ | $f_{VK}$ | $I_{RV}$ | $I_{rMz}$ $I_{rM}$ | $I_{rMy}$ $I_{rMfp}$ | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | | kg * m | | cm | | | $kg/cm^2$ | | | $kg/cm^2$ | | | | | |
| l | 1A | -2519 | 1060 | 306 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1B | -2520 | 1060 | 306 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1C | -2519 | 1060 | 303 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1D | -2520 | 1060 | 303 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1I | -2518 | 1060 | 308 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1J | -2521 | 1060 | 308 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1K | -2518 | 1060 | 300 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1L | -2521 | 1060 | 300 | -143 | -- | -- | -- | -0.14 | 0.01 | 1.00 | 0.06 | 0.76 | 0.15 | -- | -- | |
| l | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| l | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1A | -6652 | 752 | 563 | -1010 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1B | -6658 | 752 | 563 | -1011 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1C | -6652 | 752 | 559 | -1010 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1D | -6658 | 752 | 559 | -1011 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1I | -6649 | 752 | 566 | -1009 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1J | -6661 | 752 | 566 | -1012 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1K | -6649 | 752 | 556 | -1009 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1L | -6661 | 752 | 556 | -1012 | -- | -- | -- | -0.36 | 0.03 | 1.00 | 0.04 | 0.93 | 0.09 | -- | -- | |
| ½ | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| ½ | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | -- | -- | |
| 0 | 1A | -8761 | 962 | 683 | -1109 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.23 | |
| 0 | 1B | -8769 | 962 | 683 | -1107 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.23 | |
| 0 | 1C | -8761 | 962 | 673 | -1109 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.23 | |
| 0 | 1D | -8769 | 962 | 673 | -1107 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.23 | |
| 0 | 1E | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1F | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1G | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1H | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1I | -8755 | 964 | 691 | -1111 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.24 | |
| 0 | 1J | -8774 | 964 | 691 | -1106 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.24 | |
| 0 | 1K | -8755 | 964 | 666 | -1111 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.23 | |
| 0 | 1L | -8774 | 964 | 666 | -1106 | -- | -- | -- | -0.48 | 0.04 | 1.00 | 0.05 | 1.02 | 0.10 | 0.10 | 0.23 | |
| 0 | 1M | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1N | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1O | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |
| 0 | 1P | -0 | 0 | 0 | 0 | -- | -- | -- | -0.00 | 0.00 | 1.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | |

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

Nome archivio di lavoro : pilastro 2p-3p
Intestazione del lavoro : Pilastro 2p-3p
Unita' misura Massa : kg
Unita' misura Lunghezza : cm
Unita' misura Tempo : min
Tempo finale di calcolo : 120
Curva temperatura-tempo : Standard
Numero suddivisioni : 48
Temperatura aria ambiente : 20.0
Convezione (parete al fuoco) : 25.0
Radiazione (parete al fuoco) : 0.56
Convezione (parete ambiente) : 9.0
Radiazione (parete ambiente) : 0.56

**REGIONI DELLA SEZIONE**

| n.reg. | descrizione |
|---|---|
| 1 | Gruppo1 |

**NODI DELLA SEZIONE**

| Nodo | Coord.X | Coord.Y | Temp: t=0 | Temp: t=20.0 | t=40.0 | t=60.0 | t=80.0 | t=100.0 | t=120.0 |
|---|---|---|---|---|---|---|---|---|---|
| (Nodi a temperatura minima e massima) | | | | | | | | | |
| 16 | -0.933 | -1.451 | 20.0 | 20.0 | 20.9 | 30.7 | 53.5 | 84.7 | 119.0 |
| 5 | -20.933 | -21.451 | 20.0 | 782.5 | 896.0 | 954.5 | 995.3 | 1027.6 | 1054.1 |

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

Nome archivio di lavoro : pilastro 2p-3p
Intestazione del lavoro : Pilastro 2p-3p
Unita' misura Forza : kg
Unita' misura Lunghezza : cm
Unita' misura Tensioni : kg/cmq
Tempo finale di calcolo : 120
Curva temperatura-tempo : Standard
Numero suddivisioni : 48
Temperatura aria ambiente : 20.0
Convezione (parete al fuoco) : 25.0
Radiazione (parete al fuoco) : 0.56
Convezione (parete ambiente) : 9.0
Radiazione (parete ambiente) : 0.56

Normativa: NTC-2008 Versione: 14 Gennaio 2008
Fattori di riduzione dei materiali
Calcestruzzo secondo: Calcestruzzo a base calcarea
Acciaio secondo: Curva 3 (pilastri...)
Acciaio precompresso secondo: Cl. 1 - Curva 1 a (ordinario)

Resistenza caratteristica a 28 gg.cls. Rck: 380 kg/cmq
Tens. di snervamento acciaio normale.. fyk: 2150 kg/cmq
Tens. di snervamento acciaio trefoli. fykp: 16300 kg/cmq

Tensione di calcolo calcestruzzo..... fcd: -179 kg/cmq
Tensione di calcolo acciaio ordinario. fsd: 1870 kg/cmq
Modulo di Young acciaio ordinario..... Es: 2100000 kg/cmq
Tensione di calcolo trefoli..... fpd: 14174 kg/cmq
Modulo di Young trefoli..... Ep: 2100000 kg/cmq
Def.unit.dell'a.p. per presoll.perm Def.po: 0.00500
Tensione di calcolo a compressione cls fcd: -179 kg/cmq
Tensione di calcolo a trazione cls... fctd: 14 kg/cmq

## ARMATURE A.O.

| Arm | Temp | fatt.rid. | Def(%) | Tens | X | Y | Diam (mm) |
|---|---|---|---|---|---|---|---|
| 1 | 20 | 1.000 | -0.30 | -1869.6 | -17.9 | 15.5 | 16.0 |
| 2 | 20 | 1.000 | 0.26 | 1869.6 | -17.9 | -18.5 | 16.0 |
| 3 | 20 | 1.000 | 0.26 | 1869.6 | 16.1 | -18.5 | 16.0 |
| 4 | 20 | 1.000 | -0.30 | -1869.6 | 16.1 | 15.5 | 16.0 |
| 5 | 20 | 1.000 | -0.30 | -1869.6 | -0.9 | 15.5 | 12.0 |
| 6 | 20 | 1.000 | -0.02 | -436.7 | 16.1 | -1.5 | 12.0 |
| 7 | 20 | 1.000 | 0.26 | 1869.6 | -0.9 | -18.5 | 12.0 |
| 8 | 20 | 1.000 | -0.02 | -436.7 | -17.9 | -1.5 | 12.0 |

# VERIFICHE ALLO STATO LIMITE DELLA SEZIONE

| Zona compressa | Descrizione | Tempo verifica |
|---|---|---|
| superiore | pilastro 2p-3p | a freddo |

## Verifica a pressoflessione

Sforzo normale N = -124300
Legame Costitutivo Parabola-Rettangolo: -0.0020/-0.0035
Posizione asse neutro: Yn= -2.7
**Momento di rottura: Mr= 1700119.8**
Campo di rottura della sezione: 3 (snervamento acciaio e schiacciamento calcestruzzo)
Deformazione max. nel calcestruzzo epsc max(%)= -0.35
Tensione corrispondente nel calcestruzzo sigc = -178.7
Deformazione max. nell'acciaio epss max(%)= 0.26
Tensione corrispondente nell'acciaio sigs = 1869.6

## Verifiche a taglio

Taglio $V_{ED}$ = 4465.0
X sinistra Taglio = -20.9

X destra  Taglio =  19.1

**Verifica senza armatura trasversale**
Taglio resistente ultimo  Vrd = 6937.8
**I.R. = 0.644**

**Verifica delle bielle compresse**
Taglio resistente ultimo  Vrcd = 41044.3
ctg ϑ = 2.50
**I.R. = 0.109**

**Armatura minima a taglio**
(Asw/s)>= 2.87 cmq/m
**Staffe a 2 braccia  ϕ8 / 35.0 cm**
fyd usato = 1869.56  kg/cmq

# INTESTAZIONE E DATI CARATTERISTICI DEL LAVORO

==========

| | | |
|---|---|---|
| Nome archivio di lavoro | : | pilastro 2p-3p |
| Intestazione del lavoro | : | Pilastro 2p-3p |
| Unita' misura Forza | : | kg |
| Unita' misura Lunghezza | : | cm |
| Unita' misura Tensioni | : | kg/cmq |
| Tempo finale di calcolo | : | 120 |
| Curva temperatura-tempo | : | Standard |
| Numero suddivisioni | : | 48 |
| Temperatura aria ambiente | : | 20.0 |
| Convezione (parete al fuoco) | : | 25.0 |
| Radiazione (parete al fuoco) | : | 0.56 |
| Convezione (parete ambiente) | : | 9.0 |
| Radiazione (parete ambiente) | : | 0.56 |

Normativa: NTC-2008  Versione: 14 Gennaio 2008
Fattori di riduzione dei materiali
Calcestruzzo secondo: Calcestruzzo a base calcarea
Acciaio secondo: Curva 3 (pilastri...)
Acciaio precompresso secondo: Cl. 1 - Curva 1 a (ordinario)

| | | |
|---|---|---|
| Resistenza caratteristica a 28 gg.cls. Rck: | 380 | kg/cmq |
| Tens. di snervamento acciaio normale.. fyk: | 2150 | kg/cmq |
| Tens. di snervamento acciaio trefoli. fykp: | 16300 | kg/cmq |
| Tensione di calcolo calcestruzzo..... fcd: | -179 | kg/cmq |
| Tensione di calcolo acciaio ordinario. fsd: | 1870 | kg/cmq |
| Modulo di Young acciaio ordinario.....  Es: | 2100000 | kg/cmq |
| Tensione di calcolo trefoli..... fpd: | 14174 | kg/cmq |
| Modulo di Young trefoli.....  Ep: | 2100000 | kg/cmq |
| Def.unit.dell'a.p. per presoll.perm Def.po: | 0.00500 | |
| Tensione di calcolo a compressione cls fcd: | -179 | kg/cmq |
| Tensione di calcolo a trazione cls... fctd: | 14 | kg/cmq |

Legame Costitutivo Parabola-Rettangolo: -0.0020/-0.0035

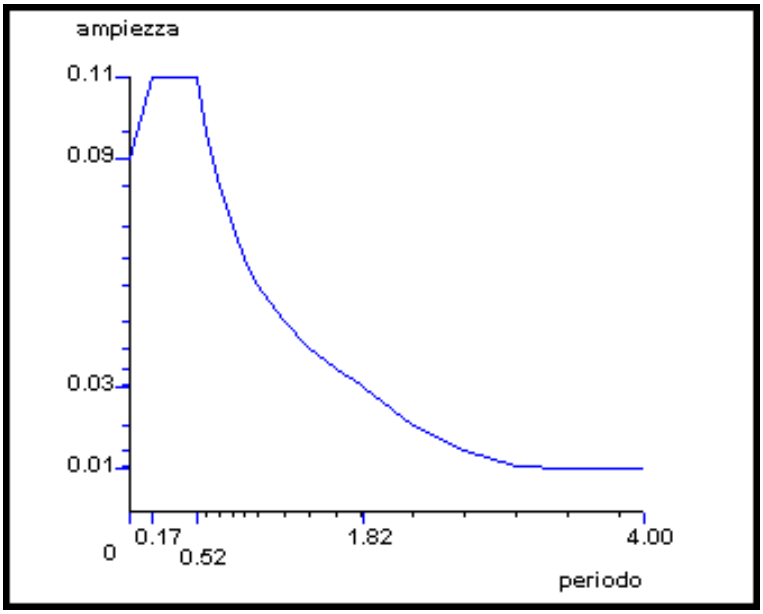
Dominio di rottura N-My

Tempo di verifica: a freddo

N,M di riferimento
N(A) =-309444
M(A) =+13.875
N(B) =+23493.6
M(B) =-0.140625
M(C')=-418242
M(C) =+418242
N(D')=+140618
M(D')=+1.71743e+006
N(D) =-140618
M(D) =+1.71743e+006

**AMV s.r.l.**
**Via San Lorenzo, 106 Tel. 0481/779903**
**34077 Ronchi dei Legionari (GO)**

## Grafico spettri Norme Tecniche delle Costruzioni




**Fattore di importanza γi 1 applicato**

***Spettri orizzontali:***

| Num. | Periodo | A.slu X |
|---|---|---|
| 1 | 0.000 | 0.0896 |
| 2 | 0.175 | 0.1104 |
| 3 | 0.524 | 0.1104 |
| 4 | 0.600 | 0.0965 |
| 5 | 0.700 | 0.0827 |
| 6 | 0.800 | 0.0723 |
| 7 | 0.900 | 0.0643 |
| 8 | 1.000 | 0.0579 |
| 9 | 1.200 | 0.0482 |
| 10 | 1.400 | 0.0413 |
| 11 | 1.600 | 0.0362 |
| 12 | 1.800 | 0.0322 |
| 13 | 1.824 | 0.0317 |
| 14 | 2.200 | 0.0218 |
| 15 | 2.600 | 0.0156 |
| 16 | 3.000 | 0.0117 |
| 17 | 3.400 | 0.0112 |
| 18 | 3.800 | 0.0112 |
| 19 | 4.000 | 0.0112 |

**AMV s.r.l.**
**Via San Lorenzo, 106 Tel. 0481/779903**
**34077 Ronchi dei Legionari (GO)**

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE DI FONDAZIONE** Gruppo: **3** Tabella: **Tabella fondazioni**
Descrizione: **Fondazioni setti in ca**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Copriferro: **3.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 17374 NF 17375 SEZ. Rp B= 60.0 H= 30.0 (trave di fondazione)

armatura base = 4 X 0.79 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice resistenza Fx,M | Bielle | V,Mx | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | | | | cmq/m | | cm |
| 1A | 0 | -0 | -11640 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.06 | 0.00 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1B | 0 | -0 | -11640 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.06 | 0.00 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1I | 0 | -0 | -11640 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.06 | 0.00 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1J | 0 | -0 | -11640 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.06 | 0.00 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 2 | 0 | -0 | -16350 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.07 | 0.00 | 0.32 | 2.26 | 16.89 | 0.00 | 6.0 |
| apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 6.0 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 15 | -0 | -11640 | -0 | 0 | 0 | -1783 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1B | 15 | -0 | -11640 | -0 | 0 | 0 | -1783 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1I | 15 | -0 | -11640 | -0 | 0 | 0 | -1783 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1J | 15 | -0 | -11640 | -0 | 0 | 0 | -1783 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 2 | 15 | -0 | -16350 | -0 | 0 | 0 | -2505 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.62 | 0.32 | 2.26 | 16.89 | 0.00 | 6.0 |
| apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 6.0 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 31 | -0 | -11640 | -0 | 0 | 0 | -3566 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1B | 31 | -0 | -11640 | -0 | 0 | 0 | -3566 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1I | 31 | -0 | -11640 | -0 | 0 | 0 | -3566 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1J | 31 | -0 | -11640 | -0 | 0 | 0 | -3566 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 2 | 31 | -0 | -16350 | -0 | 0 | 0 | -5009 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.90 | 0.32 | 2.19 | 16.89 | 0.00 | 6.0 |
| apost= -- aant= -- ainf= 2.36 asup= 3.93 staffe= 2 d 8 / 6.0 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 46 | -0 | -5746 | -0 | 0 | 0 | -4446 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1B | 46 | -0 | -5746 | -0 | 0 | 0 | -4446 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1I | 46 | -0 | -5746 | -0 | 0 | 0 | -4446 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1J | 46 | -0 | -5746 | -0 | 0 | 0 | -4446 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 2 | 46 | -0 | -8051 | -0 | 0 | 0 | -6241 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.99 | 0.16 | 1.03 | 8.32 | 0.00 | 12.1 |
| apost= -- aant= -- ainf= 2.36 asup= 4.71 staffe= 2 d 8 / 12.1 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 61 | -0 | -5746 | -0 | 0 | 0 | -5327 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | -5746 | -0 | 0 | 0 | -5327 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | -5746 | -0 | 0 | 0 | -5327 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | -5746 | -0 | 0 | 0 | -5327 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | -8051 | -0 | 0 | 0 | -7475 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.95 | 0.16 | 0.96 | 0.00 | 0.00 | 21.6 |
| apost= -- aant= -- ainf= 2.36 asup= 6.28 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 77 | -0 | -7 | -0 | 0 | 0 | -5328 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1B | 77 | -0 | -7 | -0 | 0 | 0 | -5328 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1I | 77 | -0 | -7 | -0 | 0 | 0 | -5328 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1J | 77 | -0 | -7 | -0 | 0 | 0 | -5328 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 2 | 77 | -0 | 8 | 0 | 0 | 0 | -7474 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| apost= -- aant= -- ainf= 2.36 asup= 6.28 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 92 | -0 | 5739 | 0 | 0 | 0 | -5329 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1B | 92 | -0 | 5739 | 0 | 0 | 0 | -5329 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1I | 92 | -0 | 5739 | 0 | 0 | 0 | -5329 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1J | 92 | -0 | 5739 | 0 | 0 | 0 | -5329 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 2 | 92 | -0 | 8059 | 0 | 0 | 0 | -7472 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.95 | 0.16 | 0.96 | 0.00 | 0.00 | 21.6 |
| apost= -- aant= -- ainf= 2.36 asup= 6.28 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 107 | -0 | 5739 | 0 | 0 | 0 | -4450 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1B | 107 | -0 | 5739 | 0 | 0 | 0 | -4450 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1I | 107 | -0 | 5739 | 0 | 0 | 0 | -4450 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1J | 107 | -0 | 5739 | 0 | 0 | 0 | -4450 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 2 | 107 | -0 | 8059 | 0 | 0 | 0 | -6237 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.99 | 0.16 | 1.03 | 8.33 | 0.00 | 12.1 |
| apost= -- aant= -- ainf= 2.36 asup= 4.71 staffe= 2 d 8 / 12.1 ( e armatura base = 4 X 0.79 ) | | | | | | | | | | | | | | | | | | |
| 1A | 123 | -0 | 11650 | 0 | 0 | 0 | -3571 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 123 | -0 | 11650 | 0 | 0 | 0 | -3571 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1I | 123 | -0 | 11650 | 0 | 0 | 0 | -3571 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1J | 123 | -0 | 11650 | 0 | 0 | 0 | -3571 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 2 | 123 | -0 | 16330 | 0 | 0 | 0 | -5003 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.90 | 0.32 | 2.19 | 16.87 | 0.00 | 6.0 |

apost= --  aant= --  ainf= 2.36 asup= 3.93 staffe= 2 d  8 / 6.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 138 | -0 | 11650 | 0 | 0 | 0 | -1786 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1B | 138 | -0 | 11650 | 0 | 0 | 0 | -1786 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1I | 138 | -0 | 11650 | 0 | 0 | 0 | -1786 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1J | 138 | -0 | 11650 | 0 | 0 | 0 | -1786 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 2 | 138 | -0 | 16330 | 0 | 0 | 0 | -2501 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.62 | 0.32 | 2.25 | 16.87 | 0.00 | 6.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 153 | -0 | 11650 | 0 | 0 | 0 | -1 | 1.57 | 1.57 | 3.93 | 3.93 | 0.11 | 0.00 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1B | 153 | -0 | 11650 | 0 | 0 | 0 | -1 | 1.57 | 1.57 | 3.93 | 3.93 | 0.11 | 0.00 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1I | 153 | -0 | 11650 | 0 | 0 | 0 | -1 | 1.57 | 1.57 | 3.93 | 3.93 | 0.11 | 0.00 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 1J | 153 | -0 | 11650 | 0 | 0 | 0 | -1 | 1.57 | 1.57 | 3.93 | 3.93 | 0.11 | 0.00 | 0.23 | 1.61 | 12.04 | 0.00 | 8.4 |
| 2 | 153 | -0 | 16330 | 0 | 0 | 0 | 1 | 1.57 | 1.57 | 3.93 | 3.93 | 0.11 | 0.00 | 0.32 | 2.25 | 16.87 | 0.00 | 6.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.0  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 2**  NI 17373  NF 17372  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | -9724 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.05 | 0.00 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1B | 0 | -0 | -9724 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.05 | 0.00 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1I | 0 | -0 | -9724 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.05 | 0.00 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1J | 0 | -0 | -9724 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.05 | 0.00 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 2 | 0 | -0 | -13320 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.06 | 0.00 | 0.26 | 1.84 | 13.76 | 0.00 | 7.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 15 | -0 | -9724 | -0 | 0 | 0 | -1490 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1B | 15 | -0 | -9724 | -0 | 0 | 0 | -1490 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1I | 15 | -0 | -9724 | -0 | 0 | 0 | -1490 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1J | 15 | -0 | -9724 | -0 | 0 | 0 | -1490 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 2 | 15 | -0 | -13320 | -0 | 0 | 0 | -2041 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.26 | 1.84 | 13.76 | 0.00 | 7.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 31 | -0 | -9724 | -0 | 0 | 0 | -2979 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1B | 31 | -0 | -9724 | -0 | 0 | 0 | -2979 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1I | 31 | -0 | -9724 | -0 | 0 | 0 | -2979 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 1J | 31 | -0 | -9724 | -0 | 0 | 0 | -2979 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.05 | 0.00 | 10.0 |
| 2 | 31 | -0 | -13320 | -0 | 0 | 0 | -4081 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.85 | 0.26 | 1.84 | 13.76 | 0.00 | 7.3 |

apost= --  aant= --  ainf= 2.36 asup= 3.14 staffe= 2 d  8 / 7.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 46 | -0 | -4803 | -0 | 0 | 0 | -3715 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1B | 46 | -0 | -4803 | -0 | 0 | 0 | -3715 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1I | 46 | -0 | -4803 | -0 | 0 | 0 | -3715 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 46 | -0 | -4803 | -0 | 0 | 0 | -3715 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 2 | 46 | -0 | -6561 | -0 | 0 | 0 | -5086 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.91 | 0.13 | 0.88 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | -4803 | -0 | 0 | 0 | -4451 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | -4803 | -0 | 0 | 0 | -4451 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | -4803 | -0 | 0 | 0 | -4451 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | -4803 | -0 | 0 | 0 | -4451 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | -6561 | -0 | 0 | 0 | -6091 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.96 | 0.13 | 0.84 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 4.71 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 77 | -0 | -9 | -0 | 0 | 0 | -4452 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1B | 77 | -0 | -9 | -0 | 0 | 0 | -4452 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1I | 77 | -0 | -9 | -0 | 0 | 0 | -4452 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1J | 77 | -0 | -9 | -0 | 0 | 0 | -4452 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 2 | 77 | -0 | 6 | 0 | 0 | 0 | -6090 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 4.71 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 92 | -0 | 4794 | 0 | 0 | 0 | -4454 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1B | 92 | -0 | 4794 | 0 | 0 | 0 | -4454 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1I | 92 | -0 | 4794 | 0 | 0 | 0 | -4454 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 92 | -0 | 4794 | 0 | 0 | 0 | -4454 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 2 | 92 | -0 | 6567 | 0 | 0 | 0 | -6089 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.96 | 0.13 | 0.84 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 4.71 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 107 | -0 | 4794 | 0 | 0 | 0 | -3720 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1B | 107 | -0 | 4794 | 0 | 0 | 0 | -3720 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1I | 107 | -0 | 4794 | 0 | 0 | 0 | -3720 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 107 | -0 | 4794 | 0 | 0 | 0 | -3720 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 2 | 107 | -0 | 6567 | 0 | 0 | 0 | -5083 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.91 | 0.13 | 0.88 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -0 | 9743 | 0 | 0 | 0 | -2985 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 123 | -0 | 9743 | 0 | 0 | 0 | -2985 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1I | 123 | -0 | 9743 | 0 | 0 | 0 | -2985 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1J | 123 | -0 | 9743 | 0 | 0 | 0 | -2985 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 2 | 123 | -0 | 13310 | 0 | 0 | 0 | -4077 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.85 | 0.26 | 1.84 | 13.75 | 0.00 | 7.3 |

apost= --  aant= --  ainf= 2.36 asup= 3.14 staffe= 2 d  8 / 7.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 138 | -0 | 9743 | 0 | 0 | 0 | -1492 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1B | 138 | -0 | 9743 | 0 | 0 | 0 | -1492 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1I | 138 | -0 | 9743 | 0 | 0 | 0 | -1492 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1J | 138 | -0 | 9743 | 0 | 0 | 0 | -1492 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 2 | 138 | -0 | 13310 | 0 | 0 | 0 | -2038 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.26 | 1.84 | 13.75 | 0.00 | 7.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 153 | -0 | 9743 | 0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.09 | 0.00 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1B | 153 | -0 | 9743 | 0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.09 | 0.00 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1I | 153 | -0 | 9743 | 0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.09 | 0.00 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 1J | 153 | -0 | 9743 | 0 | 0 | 0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.09 | 0.00 | 0.19 | 1.34 | 10.07 | 0.00 | 10.0 |
| 2 | 153 | -0 | 13310 | 0 | 0 | 0 | 1 | 1.57 | 1.57 | 3.93 | 3.93 | 0.11 | 0.00 | 0.26 | 1.84 | 13.75 | 0.00 | 7.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.3  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 3**  NI 6913  NF 6594  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -9537 | -0 | 0 | -0 | 1751 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.19 | 1.32 | 9.85 | 0.00 | 10.2 |
| 1B | 0 | -0 | -9197 | -0 | 0 | -0 | 1457 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.18 | 1.27 | 9.50 | 0.00 | 10.6 |
| 1I | 0 | -0 | -9760 | -0 | 0 | -0 | 1944 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.48 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 1J | 0 | -0 | -8974 | -0 | 0 | -0 | 1264 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.31 | 0.17 | 1.24 | 9.27 | 0.00 | 10.8 |
| 2 | 0 | -0 | -12940 | -0 | 0 | -0 | 2121 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.25 | 1.78 | 13.37 | 0.00 | 7.5 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 9 | -0 | -9537 | -0 | 0 | -0 | 911 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.19 | 1.32 | 9.85 | 0.00 | 10.2 |
| 1B | 9 | -0 | -9197 | -0 | 0 | -0 | 647 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.18 | 1.27 | 9.50 | 0.00 | 10.6 |
| 1I | 9 | -0 | -9760 | -0 | 0 | -0 | 1084 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 1J | 9 | -0 | -8974 | -0 | 0 | -0 | 474 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.17 | 1.24 | 9.27 | 0.00 | 10.8 |
| 2 | 9 | -0 | -12940 | -0 | 0 | -0 | 982 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.25 | 1.78 | 13.37 | 0.00 | 7.5 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 18 | -0 | -9537 | -0 | 0 | 0 | 71 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.19 | 1.32 | 9.85 | 0.00 | 10.2 |
| 1B | 18 | -0 | -9197 | -0 | 0 | 0 | -163 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.18 | 1.27 | 9.50 | 0.00 | 10.6 |
| 1I | 18 | -0 | -9760 | -0 | 0 | 0 | 225 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 1J | 18 | -0 | -8974 | -0 | 0 | 0 | -316 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.17 | 1.24 | 9.27 | 0.00 | 10.8 |
| 2 | 18 | -0 | -12940 | -0 | 0 | -0 | -158 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.25 | 1.78 | 13.37 | 0.00 | 7.5 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 7.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 26 | -0 | -5096 | -0 | 0 | 0 | -377 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.10 | 0.70 | 0.00 | 0.00 | 21.6 |
| 1B | 26 | -0 | -4568 | -0 | 0 | 0 | -565 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.14 | 0.09 | 0.63 | 0.00 | 0.00 | 21.6 |
| 1I | 26 | -0 | -5443 | -0 | 0 | 0 | -254 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1J | 26 | -0 | -4221 | -0 | 0 | 0 | -688 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.17 | 0.08 | 0.58 | 0.00 | 0.00 | 21.6 |
| 2 | 26 | -0 | -6560 | -0 | 0 | 0 | -735 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.13 | 0.90 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -0 | -5096 | -0 | 0 | 0 | -826 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.10 | 0.70 | 0.00 | 0.00 | 21.6 |
| 1B | 35 | -0 | -4568 | -0 | 0 | 0 | -967 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.09 | 0.63 | 0.00 | 0.00 | 21.6 |
| 1I | 35 | -0 | -5443 | -0 | 0 | 0 | -734 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1J | 35 | -0 | -4221 | -0 | 0 | 0 | -1059 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.26 | 0.08 | 0.58 | 0.00 | 0.00 | 21.6 |
| 2 | 35 | -0 | -6560 | -0 | 0 | 0 | -1312 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.13 | 0.90 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | -714 | 0 | 0 | 0 | -889 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.01 | 0.10 | 0.00 | 0.00 | 21.6 |
| 1B | 44 | -0 | 7 | 0 | 0 | 0 | -966 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 21.6 |
| 1I | 44 | -0 | -1188 | 0 | 0 | 0 | -838 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.02 | 0.16 | 0.00 | 0.00 | 21.6 |
| 1J | 44 | -0 | 481 | 0 | 0 | 0 | -1017 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.01 | 0.07 | 0.00 | 0.00 | 21.6 |
| 2 | 44 | -0 | -253 | -0 | 0 | 0 | -1334 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.00 | 0.03 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 53 | -0 | 3616 | 0 | 0 | 0 | -952 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.07 | 0.50 | 0.00 | 0.00 | 21.6 |
| 1B | 53 | -0 | 4536 | 0 | 0 | 0 | -966 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.09 | 0.63 | 0.00 | 0.00 | 21.6 |
| 1I | 53 | -0 | 3012 | 0 | 0 | 0 | -943 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.06 | 0.42 | 0.00 | 0.00 | 21.6 |
| 1J | 53 | -0 | 5140 | 0 | 0 | 0 | -975 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.10 | 0.71 | 0.00 | 0.00 | 21.6 |
| 2 | 53 | -0 | 5993 | 0 | 0 | 0 | -1357 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.34 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | 3616 | 0 | 0 | 0 | -634 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.07 | 0.50 | 0.00 | 0.00 | 21.6 |
| 1B | 62 | -0 | 4536 | 0 | 0 | 0 | -566 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.14 | 0.09 | 0.63 | 0.00 | 0.00 | 21.6 |
| 1I | 62 | -0 | 3012 | 0 | 0 | 0 | -678 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.17 | 0.06 | 0.42 | 0.00 | 0.00 | 21.6 |
| 1J | 62 | -0 | 5140 | 0 | 0 | 0 | -522 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.10 | 0.71 | 0.00 | 0.00 | 21.6 |
| 2 | 62 | -0 | 5993 | 0 | 0 | 0 | -829 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -0 | 7903 | 0 | 0 | 0 | -315 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.15 | 1.09 | 8.17 | 0.00 | 12.3 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 70 | -0 | 9027 | 0 | 0 | 0 | -315 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.18 | 1.25 | 9.33 | 0.00 | 10.8 |
| 1I | 70 | -0 | 7164 | 0 | 0 | 0 | -413 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.10 | 0.14 | 0.99 | 0.00 | 0.00 | 21.6 |
| 1J | 70 | -0 | 9766 | 0 | 0 | 0 | -412 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.10 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 2 | 70 | -0 | 12190 | 0 | 0 | 0 | -302 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.24 | 1.68 | 12.60 | 0.00 | 8.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 8.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -0 | 7903 | 0 | 0 | -0 | 628 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.15 | 1.09 | 8.17 | 0.00 | 12.3 |
| 1B | 79 | -0 | 9027 | 0 | 0 | -0 | 381 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.18 | 1.25 | 9.33 | 0.00 | 10.8 |
| 1I | 79 | -0 | 7164 | 0 | 0 | -0 | 790 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.14 | 0.99 | 0.00 | 0.00 | 21.6 |
| 1J | 79 | -0 | 9766 | 0 | 0 | -0 | 218 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 2 | 79 | -0 | 12190 | 0 | 0 | -0 | 772 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.24 | 1.68 | 12.60 | 0.00 | 8.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 8.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | 7903 | 0 | 0 | -0 | 1423 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.35 | 0.15 | 1.09 | 8.17 | 0.00 | 12.3 |
| 1B | 88 | -0 | 9027 | 0 | 0 | -0 | 1076 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.18 | 1.25 | 9.33 | 0.00 | 10.8 |
| 1I | 88 | -0 | 7164 | 0 | 0 | -0 | 1650 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.41 | 0.14 | 0.99 | 0.00 | 0.00 | 21.6 |
| 1J | 88 | -0 | 9766 | 0 | 0 | -0 | 849 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 2 | 88 | -0 | 12190 | 0 | 0 | -0 | 1845 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.24 | 1.68 | 12.60 | 0.00 | 8.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 8.0  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 4**  NI 6594  NF 6914  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -7410 | -0 | 0 | -0 | 1423 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.35 | 0.14 | 1.02 | 7.66 | 0.00 | 13.1 |
| 1B | 0 | -0 | -6922 | -0 | 0 | -0 | 1077 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.13 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1I | 0 | -0 | -7730 | -0 | 0 | -0 | 1650 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.41 | 0.15 | 1.07 | 7.99 | 0.00 | 12.6 |
| 1J | 0 | -0 | -6602 | -0 | 0 | -0 | 850 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 2 | 0 | -0 | -10340 | -0 | 0 | -0 | 1845 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.20 | 1.43 | 10.68 | 0.00 | 9.4 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 9 | -0 | -7410 | -0 | 0 | -0 | 771 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.14 | 1.02 | 7.66 | 0.00 | 13.1 |
| 1B | 9 | -0 | -6922 | -0 | 0 | -0 | 467 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.13 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1I | 9 | -0 | -7730 | -0 | 0 | -0 | 970 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.15 | 1.07 | 7.99 | 0.00 | 12.6 |
| 1J | 9 | -0 | -6602 | -0 | 0 | -0 | 268 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.07 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 2 | 9 | -0 | -10340 | -0 | 0 | -0 | 935 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.20 | 1.43 | 10.68 | 0.00 | 9.4 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 18 | -0 | -7410 | -0 | 0 | 0 | 118 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.14 | 1.02 | 7.66 | 0.00 | 13.1 |
| 1B | 18 | -0 | -6922 | -0 | 0 | 0 | -142 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.13 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1I | 18 | -0 | -7730 | -0 | 0 | 0 | 289 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.07 | 0.15 | 1.07 | 7.99 | 0.00 | 12.6 |
| 1J | 18 | -0 | -6602 | -0 | 0 | 0 | -313 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 2 | 18 | -0 | -10340 | -0 | 0 | -0 | 24 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.20 | 1.43 | 10.68 | 0.00 | 9.4 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 26 | -0 | -3006 | -0 | 0 | 0 | -147 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |
| 1B | 26 | -0 | -2730 | -0 | 0 | 0 | -383 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.10 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1I | 26 | -0 | -3188 | -0 | 0 | 0 | 8 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.00 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1J | 26 | -0 | -2548 | -0 | 0 | 0 | -538 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.05 | 0.35 | 0.00 | 0.00 | 21.6 |
| 2 | 26 | -0 | -4257 | -0 | 0 | 0 | -351 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.08 | 0.59 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 35 | -0 | -3006 | -0 | 0 | 0 | -412 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.10 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |
| 1B | 35 | -0 | -2730 | -0 | 0 | 0 | -623 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.15 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1I | 35 | -0 | -3188 | -0 | 0 | 0 | -273 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.07 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1J | 35 | -0 | -2548 | -0 | 0 | 0 | -762 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.05 | 0.35 | 0.00 | 0.00 | 21.6 |
| 2 | 35 | -0 | -4257 | -0 | 0 | 0 | -725 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.08 | 0.59 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | 1347 | 0 | 0 | 0 | -293 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.07 | 0.03 | 0.19 | 0.00 | 0.00 | 21.6 |
| 1B | 44 | -0 | 1413 | 0 | 0 | 0 | -498 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.03 | 0.19 | 0.00 | 0.00 | 21.6 |
| 1I | 44 | -0 | 1304 | 0 | 0 | 0 | -158 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.03 | 0.18 | 0.00 | 0.00 | 21.6 |
| 1J | 44 | -0 | 1456 | 0 | 0 | 0 | -634 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.03 | 0.20 | 0.00 | 0.00 | 21.6 |
| 2 | 44 | -0 | 1760 | 0 | 0 | 0 | -570 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.14 | 0.03 | 0.24 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 53 | -0 | 5509 | 0 | 0 | 0 | -174 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.11 | 0.76 | 0.00 | 0.00 | 21.6 |
| 1B | 53 | -0 | 5655 | 0 | 0 | 0 | -374 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.11 | 0.78 | 0.00 | 0.00 | 21.6 |
| 1I | 53 | -0 | 5414 | 0 | 0 | 0 | -43 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1J | 53 | -0 | 5750 | 0 | 0 | 0 | -505 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 2 | 53 | -0 | 7720 | 0 | 0 | 0 | -415 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.10 | 0.15 | 1.06 | 7.98 | 0.00 | 12.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 12.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | 5509 | 0 | 0 | -0 | 324 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.11 | 0.76 | 0.00 | 0.00 | 21.6 |
| 1B | 62 | -0 | 5655 | 0 | 0 | -0 | 111 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.11 | 0.78 | 0.00 | 0.00 | 21.6 |
| 1I | 62 | -0 | 5414 | 0 | 0 | 0 | 463 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1J | 62 | -0 | 5750 | 0 | 0 | 0 | -29 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.11 | 0.79 | 0.00 | 0.00 | 21.6 |
| 2 | 62 | -0 | 7720 | 0 | 0 | -0 | 264 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.07 | 0.15 | 1.06 | 7.98 | 0.00 | 12.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 12.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -0 | 9566 | 0 | 0 | -0 | 822 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.19 | 1.32 | 9.88 | 0.00 | 10.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 70 | -0 | 9920 | 0 | 0 | -0 | 596 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.15 | 0.19 | 1.37 | 10.25 | 0.00 | 9.8 |
| 1I | 70 | -0 | 9332 | 0 | 0 | -0 | 970 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.18 | 1.29 | 9.64 | 0.00 | 10.4 |
| 1J | 70 | -0 | 10154 | 0 | 0 | -0 | 448 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.11 | 0.20 | 1.40 | 10.49 | 0.00 | 9.6 |
| 2 | 70 | -0 | 13630 | 0 | 0 | -0 | 944 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.27 | 1.88 | 14.08 | 0.00 | 7.1 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 7.1 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -0 | 9566 | 0 | 0 | -0 | 1695 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.42 | 0.19 | 1.32 | 9.88 | 0.00 | 10.2 |
| 1B | 79 | -0 | 9920 | 0 | 0 | -0 | 1438 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.19 | 1.37 | 10.25 | 0.00 | 9.8 |
| 1I | 79 | -0 | 9332 | 0 | 0 | -0 | 1864 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.18 | 1.29 | 9.64 | 0.00 | 10.4 |
| 1J | 79 | -0 | 10154 | 0 | 0 | -0 | 1270 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.32 | 0.20 | 1.40 | 10.49 | 0.00 | 9.6 |
| 2 | 79 | -0 | 13630 | 0 | 0 | -0 | 2144 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.27 | 1.88 | 14.08 | 0.00 | 7.1 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 7.1 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | 9566 | 0 | 0 | -0 | 2568 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.19 | 1.32 | 9.88 | 0.00 | 10.2 |
| 1B | 88 | -0 | 9920 | 0 | 0 | -0 | 2280 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.19 | 1.37 | 10.25 | 0.00 | 9.8 |
| 1I | 88 | -0 | 9332 | 0 | 0 | -0 | 2757 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.69 | 0.18 | 1.29 | 9.64 | 0.00 | 10.4 |
| 1J | 88 | -0 | 10154 | 0 | 0 | -0 | 2091 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.52 | 0.20 | 1.40 | 10.49 | 0.00 | 9.6 |
| 2 | 88 | -0 | 13630 | 0 | 0 | -0 | 3344 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.83 | 0.27 | 1.88 | 14.08 | 0.00 | 7.1 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 7.1 ( e armatura base = 4 X 0.79 )

**ASTA NUM. 5** NI 6914 NF 6871 SEZ. Rp B= 60.0 H= 30.0 (trave di fondazione)

armatura base = 4 X 0.79 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -12474 | -0 | 0 | -0 | 2568 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.24 | 1.72 | 12.89 | 0.00 | 7.8 |
| 1B | 0 | -0 | -11646 | -0 | 0 | -0 | 2280 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1I | 0 | -0 | -13018 | -0 | 0 | -0 | 2757 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.69 | 0.25 | 1.80 | 13.45 | 0.00 | 7.5 |
| 1J | 0 | -0 | -11102 | -0 | 0 | -0 | 2091 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.52 | 0.22 | 1.53 | 11.47 | 0.00 | 8.8 |
| 2 | 0 | -0 | -17050 | -0 | 0 | -0 | 3343 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.83 | 0.33 | 2.35 | 17.62 | 0.00 | 5.7 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.7 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 14 | -0 | -12474 | -0 | 0 | -0 | 822 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.24 | 1.72 | 12.89 | 0.00 | 7.8 |
| 1B | 14 | -0 | -11646 | -0 | 0 | -0 | 650 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1I | 14 | -0 | -13018 | -0 | 0 | -0 | 935 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.25 | 1.80 | 13.45 | 0.00 | 7.5 |
| 1J | 14 | -0 | -11102 | -0 | 0 | -0 | 537 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.22 | 1.53 | 11.47 | 0.00 | 8.8 |
| 2 | 14 | -0 | -17050 | -0 | 0 | -0 | 956 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.33 | 2.35 | 17.62 | 0.00 | 5.7 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.7 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 28 | -0 | -12474 | -0 | 0 | 0 | -925 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.24 | 1.72 | 12.89 | 0.00 | 7.8 |
| 1B | 28 | -0 | -11646 | -0 | 0 | 0 | -981 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.23 | 1.61 | 12.03 | 0.00 | 8.4 |
| 1I | 28 | -0 | -13018 | -0 | 0 | 0 | -888 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.25 | 1.80 | 13.45 | 0.00 | 7.5 |
| 1J | 28 | -0 | -11102 | -0 | 0 | 0 | -1018 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.22 | 1.53 | 11.47 | 0.00 | 8.8 |
| 2 | 28 | -0 | -17050 | -0 | 0 | 0 | -1431 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.33 | 2.35 | 17.62 | 0.00 | 5.7 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.7 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 42 | -0 | -5943 | -0 | 0 | 0 | -1756 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.12 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1B | 42 | -0 | -5431 | -0 | 0 | 0 | -1740 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1I | 42 | -0 | -6280 | -0 | 0 | 0 | -1766 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1J | 42 | -0 | -5094 | -0 | 0 | 0 | -1730 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.43 | 0.10 | 0.70 | 0.00 | 0.00 | 21.6 |
| 2 | 42 | -0 | -7973 | -0 | 0 | 0 | -2547 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.16 | 1.10 | 8.24 | 0.00 | 12.2 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 12.2 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 56 | -0 | -5943 | -0 | 0 | 0 | -2588 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.12 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1B | 56 | -0 | -5431 | -0 | 0 | 0 | -2588 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1I | 56 | -0 | -6280 | -0 | 0 | 0 | -2645 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.66 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1J | 56 | -0 | -5094 | -0 | 0 | 0 | -2645 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.66 | 0.10 | 0.70 | 0.00 | 0.00 | 21.6 |
| 2 | 56 | -0 | -7973 | -0 | 0 | 0 | -3663 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.91 | 0.16 | 1.10 | 8.24 | 0.00 | 12.2 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 12.2 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 70 | -0 | 429 | 0 | 0 | 0 | -2411 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.60 | 0.01 | 0.06 | 0.00 | 0.00 | 21.6 |
| 1B | 70 | -0 | 640 | 0 | 0 | 0 | -2528 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.01 | 0.09 | 0.00 | 0.00 | 21.6 |
| 1I | 70 | -0 | 290 | 0 | 0 | 0 | -2334 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.58 | 0.01 | 0.04 | 0.00 | 0.00 | 21.6 |
| 1J | 70 | -0 | 779 | 0 | 0 | 0 | -2605 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.65 | 0.02 | 0.11 | 0.00 | 0.00 | 21.6 |
| 2 | 70 | -0 | 915 | 0 | 0 | 0 | -3535 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.88 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 84 | -0 | 6630 | 0 | 0 | 0 | -2322 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.58 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 1B | 84 | -0 | 6708 | 0 | 0 | 0 | -2468 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.61 | 0.13 | 0.93 | 0.00 | 0.00 | 21.6 |
| 1I | 84 | -0 | 6578 | 0 | 0 | 0 | -2225 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.55 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 1J | 84 | -0 | 6760 | 0 | 0 | 0 | -2565 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.13 | 0.93 | 0.00 | 0.00 | 21.6 |
| 2 | 84 | -0 | 9703 | 0 | 0 | 0 | -3407 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.85 | 0.19 | 1.34 | 10.03 | 0.00 | 10.0 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 10.0 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 6630 | 0 | 0 | 0 | -1394 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.35 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 1B | 98 | -0 | 6708 | 0 | 0 | 0 | -1529 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.13 | 0.93 | 0.00 | 0.00 | 21.6 |
| 1I | 98 | -0 | 6578 | 0 | 0 | 0 | -1304 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.32 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 6760 | 0 | 0 | 0 | -1618 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.40 | 0.13 | 0.93 | 0.00 | 0.00 | 21.6 |
| 2 | 98 | -0 | 9703 | 0 | 0 | 0 | -2049 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.19 | 1.34 | 10.03 | 0.00 | 10.0 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 10.0 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 112 | -0 | 12590 | 0 | 0 | 0 | -465 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.24 | 1.74 | 13.01 | 0.00 | 7.7 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 112 | -0 | 12950 | 0 | 0 | 0 | -590 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.15 | 0.25 | 1.79 | 13.38 | 0.00 | 7.5 |
| 1I | 112 | -0 | 12354 | 0 | 0 | 0 | -383 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.10 | 0.24 | 1.70 | 12.77 | 0.00 | 7.9 |
| 1J | 112 | -0 | 13186 | 0 | 0 | 0 | -672 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.17 | 0.26 | 1.82 | 13.63 | 0.00 | 7.4 |
| 2 | 112 | -0 | 18470 | 0 | 0 | 0 | -690 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.17 | 0.36 | 2.55 | 19.09 | 0.00 | 5.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 5.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 126 | -0 | 12590 | 0 | 0 | -0 | 1298 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.32 | 0.24 | 1.74 | 13.01 | 0.00 | 7.7 |
| 1B | 126 | -0 | 12950 | 0 | 0 | -0 | 1223 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.30 | 0.25 | 1.79 | 13.38 | 0.00 | 7.5 |
| 1I | 126 | -0 | 12354 | 0 | 0 | -0 | 1347 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.24 | 1.70 | 12.77 | 0.00 | 7.9 |
| 1J | 126 | -0 | 13186 | 0 | 0 | -0 | 1175 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.29 | 0.26 | 1.82 | 13.63 | 0.00 | 7.4 |
| 2 | 126 | -0 | 18470 | 0 | 0 | -0 | 1896 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.47 | 0.36 | 2.55 | 19.09 | 0.00 | 5.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 5.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -0 | 12590 | 0 | 0 | -0 | 3061 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.24 | 1.74 | 13.01 | 0.00 | 7.7 |
| 1B | 140 | -0 | 12950 | 0 | 0 | -0 | 3037 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.75 | 0.25 | 1.79 | 13.38 | 0.00 | 7.5 |
| 1I | 140 | -0 | 12354 | 0 | 0 | -0 | 3076 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.24 | 1.70 | 12.77 | 0.00 | 7.9 |
| 1J | 140 | -0 | 13186 | 0 | 0 | -0 | 3021 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.75 | 0.26 | 1.82 | 13.63 | 0.00 | 7.4 |
| 2 | 140 | -0 | 18470 | 0 | 0 | -0 | 4481 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.93 | 0.36 | 2.55 | 19.09 | 0.00 | 5.3 |

apost= --  aant= --  ainf= 3.14 asup= 2.36 staffe= 2 d  8 / 5.3  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 6**  NI 6871  NF 6698  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -10970 | -0 | 0 | -0 | 3061 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.21 | 1.51 | 11.34 | 0.00 | 8.9 |
| 1B | 0 | -0 | -10670 | -0 | 0 | -0 | 3037 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.21 | 1.47 | 11.03 | 0.00 | 9.1 |
| 1I | 0 | -0 | -11167 | -0 | 0 | -0 | 3077 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.22 | 1.54 | 11.54 | 0.00 | 8.7 |
| 1J | 0 | -0 | -10473 | -0 | 0 | -0 | 3021 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.75 | 0.20 | 1.44 | 10.82 | 0.00 | 9.3 |
| 2 | 0 | -0 | -15670 | -0 | 0 | -0 | 4482 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.93 | 0.30 | 2.16 | 16.19 | 0.00 | 6.2 |

apost= --  aant= --  ainf= 3.14 asup= 2.36 staffe= 2 d  8 / 6.2  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 14 | -0 | -10970 | -0 | 0 | -0 | 1599 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.40 | 0.21 | 1.51 | 11.34 | 0.00 | 8.9 |
| 1B | 14 | -0 | -10670 | -0 | 0 | -0 | 1534 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.21 | 1.47 | 11.03 | 0.00 | 9.1 |
| 1I | 14 | -0 | -11167 | -0 | 0 | -0 | 1642 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.41 | 0.22 | 1.54 | 11.54 | 0.00 | 8.7 |
| 1J | 14 | -0 | -10473 | -0 | 0 | -0 | 1492 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.20 | 1.44 | 10.82 | 0.00 | 9.3 |
| 2 | 14 | -0 | -15670 | -0 | 0 | -0 | 2335 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.58 | 0.30 | 2.16 | 16.19 | 0.00 | 6.2 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.2  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | -0 | -10970 | -0 | 0 | -0 | 138 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.21 | 1.51 | 11.34 | 0.00 | 8.9 |
| 1B | 27 | -0 | -10670 | -0 | 0 | -0 | 32 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.21 | 1.47 | 11.03 | 0.00 | 9.1 |
| 1I | 27 | -0 | -11167 | -0 | 0 | -0 | 208 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.22 | 1.54 | 11.54 | 0.00 | 8.7 |
| 1J | 27 | -0 | -10473 | -0 | 0 | -0 | -38 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.20 | 1.44 | 10.82 | 0.00 | 9.3 |
| 2 | 27 | -0 | -15670 | -0 | 0 | -0 | 188 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.30 | 2.16 | 16.19 | 0.00 | 6.2 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.2  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | -4967 | -0 | 0 | 0 | -538 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |
| 1B | 41 | -0 | -4933 | -0 | 0 | 0 | -648 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1I | 41 | -0 | -4990 | -0 | 0 | 0 | -465 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |
| 1J | 41 | -0 | -4910 | -0 | 0 | 0 | -721 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 2 | 41 | -0 | -7200 | -0 | 0 | 0 | -799 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.14 | 0.99 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 55 | -0 | -4967 | -0 | 0 | 0 | -1213 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.30 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |
| 1B | 55 | -0 | -4933 | -0 | 0 | 0 | -1329 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1I | 55 | -0 | -4990 | -0 | 0 | 0 | -1138 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.28 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |
| 1J | 55 | -0 | -4910 | -0 | 0 | 0 | -1405 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 2 | 55 | -0 | -7200 | -0 | 0 | 0 | -1785 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.14 | 0.99 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -0 | 715 | 0 | 0 | 0 | -1115 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.28 | 0.01 | 0.10 | 0.00 | 0.00 | 21.6 |
| 1B | 69 | -0 | 942 | 0 | 0 | 0 | -1200 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.30 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |
| 1I | 69 | -0 | 565 | 0 | 0 | 0 | -1060 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.26 | 0.01 | 0.08 | 0.00 | 0.00 | 21.6 |
| 1J | 69 | -0 | 1091 | 0 | 0 | 0 | -1255 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.31 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 2 | 69 | -0 | 1160 | 0 | 0 | 0 | -1626 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.40 | 0.02 | 0.16 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -0 | 6301 | 0 | 0 | 0 | -1017 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1B | 82 | -0 | 6791 | 0 | 0 | 0 | -1071 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.13 | 0.94 | 0.00 | 0.00 | 21.6 |
| 1I | 82 | -0 | 5980 | 0 | 0 | 0 | -982 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.12 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1J | 82 | -0 | 7112 | 0 | 0 | 0 | -1106 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.14 | 0.98 | 0.00 | 0.00 | 21.6 |
| 2 | 82 | -0 | 9450 | 0 | 0 | 0 | -1467 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.18 | 1.30 | 9.76 | 0.00 | 10.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 10.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 96 | -0 | 6301 | 0 | 0 | 0 | -154 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1B | 96 | -0 | 6791 | 0 | 0 | 0 | -140 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.13 | 0.94 | 0.00 | 0.00 | 21.6 |
| 1I | 96 | -0 | 5980 | 0 | 0 | 0 | -163 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.12 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1J | 96 | -0 | 7112 | 0 | 0 | 0 | -131 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.14 | 0.98 | 0.00 | 0.00 | 21.6 |
| 2 | 96 | -0 | 9450 | 0 | 0 | 0 | -172 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.18 | 1.30 | 9.76 | 0.00 | 10.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 10.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 11854 | 0 | 0 | -0 | 790 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.23 | 1.63 | 12.25 | 0.00 | 8.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 110 | -0 | 12606 | 0 | 0 | -0 | 790 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.25 | 1.74 | 13.03 | 0.00 | 7.7 |
| 1I | 110 | -0 | 11359 | 0 | 0 | -0 | 843 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.22 | 1.57 | 11.74 | 0.00 | 8.6 |
| 1J | 110 | -0 | 13101 | 0 | 0 | -0 | 843 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.25 | 1.81 | 13.54 | 0.00 | 7.4 |
| 2 | 110 | -0 | 17710 | 0 | 0 | -0 | 1122 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.28 | 0.34 | 2.44 | 18.30 | 0.00 | 5.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -0 | 11854 | 0 | 0 | -0 | 2517 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.23 | 1.63 | 12.25 | 0.00 | 8.2 |
| 1B | 123 | -0 | 12606 | 0 | 0 | -0 | 2333 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.58 | 0.25 | 1.74 | 13.03 | 0.00 | 7.7 |
| 1I | 123 | -0 | 11359 | 0 | 0 | -0 | 2638 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.66 | 0.22 | 1.57 | 11.74 | 0.00 | 8.6 |
| 1J | 123 | -0 | 13101 | 0 | 0 | -0 | 2212 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.55 | 0.25 | 1.81 | 13.54 | 0.00 | 7.4 |
| 2 | 123 | -0 | 17710 | 0 | 0 | -0 | 3548 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.88 | 0.34 | 2.44 | 18.30 | 0.00 | 5.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -0 | 11854 | 0 | 0 | -0 | 4244 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.89 | 0.23 | 1.63 | 12.25 | 0.00 | 8.2 |
| 1B | 137 | -0 | 12606 | 0 | 0 | -0 | 3957 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.98 | 0.25 | 1.74 | 13.03 | 0.00 | 7.7 |
| 1I | 137 | -0 | 11359 | 0 | 0 | -0 | 4433 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.92 | 0.22 | 1.57 | 11.74 | 0.00 | 8.6 |
| 1J | 137 | -0 | 13101 | 0 | 0 | -0 | 3768 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.94 | 0.25 | 1.81 | 13.54 | 0.00 | 7.4 |
| 2 | 137 | -0 | 17710 | 0 | 0 | -0 | 5974 | 1.57 | 1.57 | 6.28 | 3.93 | 0.15 | 0.94 | 0.34 | 2.27 | 18.30 | 0.00 | 5.5 |

apost= -- aant= -- ainf= 4.71 asup= 2.36 staffe= 2 d 8 / 5.5 ( e armatura base = 4 X 0.79 )

**ASTA NUM. 7** NI 6698 NF 6878 SEZ. Rp B= 60.0 H= 30.0 (trave di fondazione)

armatura base = 4 X 0.79 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -14221 | -0 | 0 | -0 | 4244 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.89 | 0.28 | 1.96 | 14.69 | 0.00 | 6.8 |
| 1B | 0 | -0 | -13179 | -0 | 0 | -0 | 3956 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.98 | 0.26 | 1.82 | 13.62 | 0.00 | 7.4 |
| 1I | 0 | -0 | -14906 | -0 | 0 | -0 | 4432 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.92 | 0.29 | 2.06 | 15.40 | 0.00 | 6.5 |
| 1J | 0 | -0 | -12495 | -0 | 0 | -0 | 3768 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.94 | 0.24 | 1.72 | 12.91 | 0.00 | 7.8 |
| 2 | 0 | -0 | -20040 | -0 | 0 | -0 | 5974 | 1.57 | 1.57 | 6.28 | 3.93 | 0.15 | 0.94 | 0.39 | 2.57 | 20.71 | 0.00 | 4.9 |

apost= -- aant= -- ainf= 4.71 asup= 2.36 staffe= 2 d 8 / 4.9 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 14 | -0 | -14221 | -0 | 0 | -0 | 2295 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.28 | 1.96 | 14.69 | 0.00 | 6.8 |
| 1B | 14 | -0 | -13179 | -0 | 0 | -0 | 2151 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.26 | 1.82 | 13.62 | 0.00 | 7.4 |
| 1I | 14 | -0 | -14906 | -0 | 0 | -0 | 2390 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.59 | 0.29 | 2.06 | 15.40 | 0.00 | 6.5 |
| 1J | 14 | -0 | -12495 | -0 | 0 | -0 | 2056 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.24 | 1.72 | 12.91 | 0.00 | 7.8 |
| 2 | 14 | -0 | -20040 | -0 | 0 | -0 | 3229 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.80 | 0.39 | 2.76 | 20.71 | 0.00 | 4.9 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.9 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | -0 | -14221 | -0 | 0 | -0 | 348 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.28 | 1.96 | 14.69 | 0.00 | 6.8 |
| 1B | 27 | -0 | -13179 | -0 | 0 | -0 | 346 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.26 | 1.82 | 13.62 | 0.00 | 7.4 |
| 1I | 27 | -0 | -14906 | -0 | 0 | -0 | 349 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.29 | 2.06 | 15.40 | 0.00 | 6.5 |
| 1J | 27 | -0 | -12495 | -0 | 0 | -0 | 345 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.24 | 1.72 | 12.91 | 0.00 | 7.8 |
| 2 | 27 | -0 | -20040 | -0 | 0 | -0 | 484 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.39 | 2.76 | 20.71 | 0.00 | 4.9 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.9 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | -8607 | -0 | 0 | 0 | -832 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.17 | 1.19 | 8.89 | 0.00 | 11.3 |
| 1B | 41 | -0 | -7821 | -0 | 0 | 0 | -726 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.15 | 1.08 | 8.08 | 0.00 | 12.4 |
| 1I | 41 | -0 | -9124 | -0 | 0 | 0 | -901 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.18 | 1.26 | 9.43 | 0.00 | 10.7 |
| 1J | 41 | -0 | -7304 | -0 | 0 | 0 | -656 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.14 | 1.01 | 7.55 | 0.00 | 13.3 |
| 2 | 41 | -0 | -12030 | -0 | 0 | 0 | -1164 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.29 | 0.23 | 1.66 | 12.43 | 0.00 | 8.1 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 55 | -0 | -8607 | -0 | 0 | 0 | -2011 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.50 | 0.17 | 1.19 | 8.89 | 0.00 | 11.3 |
| 1B | 55 | -0 | -7821 | -0 | 0 | 0 | -2011 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.50 | 0.15 | 1.08 | 8.08 | 0.00 | 12.4 |
| 1I | 55 | -0 | -9124 | -0 | 0 | 0 | -2151 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.18 | 1.26 | 9.43 | 0.00 | 10.7 |
| 1J | 55 | -0 | -7304 | -0 | 0 | 0 | -2151 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.14 | 1.01 | 7.55 | 0.00 | 13.3 |
| 2 | 55 | -0 | -12030 | -0 | 0 | 0 | -2814 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.70 | 0.23 | 1.66 | 12.43 | 0.00 | 8.1 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 8.1 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -0 | -3151 | -0 | 0 | 0 | -2155 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.54 | 0.06 | 0.43 | 0.00 | 0.00 | 21.6 |
| 1B | 69 | -0 | -2613 | -0 | 0 | 0 | -2443 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.61 | 0.05 | 0.36 | 0.00 | 0.00 | 21.6 |
| 1I | 69 | -0 | -3504 | -0 | 0 | 0 | -1966 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.49 | 0.07 | 0.48 | 0.00 | 0.00 | 21.6 |
| 1J | 69 | -0 | -2260 | -0 | 0 | 0 | -2632 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.65 | 0.04 | 0.31 | 0.00 | 0.00 | 21.6 |
| 2 | 69 | -0 | -4240 | -0 | 0 | 0 | -3395 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.84 | 0.08 | 0.58 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -0 | -3151 | -0 | 0 | 0 | -2513 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.62 | 0.06 | 0.43 | 0.00 | 0.00 | 21.6 |
| 1B | 82 | -0 | -2613 | -0 | 0 | 0 | -2875 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.71 | 0.05 | 0.36 | 0.00 | 0.00 | 21.6 |
| 1I | 82 | -0 | -3504 | 0 | 0 | 0 | -2276 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.07 | 0.48 | 0.00 | 0.00 | 21.6 |
| 1J | 82 | -0 | 2676 | 0 | 0 | 0 | -3112 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.77 | 0.05 | 0.37 | 0.00 | 0.00 | 21.6 |
| 2 | 82 | -0 | -4240 | -0 | 0 | 0 | -3976 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.99 | 0.08 | 0.58 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 96 | -0 | 2192 | 0 | 0 | 0 | -2173 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.54 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 1B | 96 | -0 | 2484 | 0 | 0 | 0 | -2574 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.05 | 0.34 | 0.00 | 0.00 | 21.6 |
| 1I | 96 | -0 | 2000 | 0 | 0 | 0 | -1909 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.47 | 0.04 | 0.28 | 0.00 | 0.00 | 21.6 |
| 1J | 96 | -0 | 2676 | 0 | 0 | 0 | -2838 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.71 | 0.05 | 0.37 | 0.00 | 0.00 | 21.6 |
| 2 | 96 | -0 | 3411 | 0 | 0 | 0 | -3509 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.87 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 7488 | 0 | 0 | 0 | -1833 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.15 | 1.03 | 7.74 | 0.00 | 13.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 110 | -0 | 7530 | 0 | 0 | 0 | -2274 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.15 | 1.04 | 7.78 | 0.00 | 12.9 |
| 1I | 110 | -0 | 7461 | 0 | 0 | 0 | -1543 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.15 | 1.03 | 7.71 | 0.00 | 13.0 |
| 1J | 110 | -0 | 7557 | 0 | 0 | 0 | -2564 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.15 | 1.04 | 7.81 | 0.00 | 12.9 |
| 2 | 110 | -0 | 11010 | 0 | 0 | 0 | -3041 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.21 | 1.52 | 11.38 | 0.00 | 8.8 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 8.8 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -0 | 7488 | 0 | 0 | 0 | -801 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.15 | 1.03 | 7.74 | 0.00 | 13.0 |
| 1B | 123 | -0 | 7530 | 0 | 0 | 0 | -1248 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.31 | 0.15 | 1.04 | 7.78 | 0.00 | 12.9 |
| 1I | 123 | -0 | 7461 | 0 | 0 | 0 | -507 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.15 | 1.03 | 7.71 | 0.00 | 13.0 |
| 1J | 123 | -0 | 7557 | 0 | 0 | 0 | -1541 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.15 | 1.04 | 7.81 | 0.00 | 12.9 |
| 2 | 123 | -0 | 11010 | 0 | 0 | 0 | -1533 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.21 | 1.52 | 11.38 | 0.00 | 8.8 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 8.8 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 137 | -0 | 7488 | 0 | 0 | 0 | 231 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.15 | 1.03 | 7.74 | 0.00 | 13.0 |
| 1B | 137 | -0 | 7530 | 0 | 0 | 0 | -222 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.15 | 1.04 | 7.78 | 0.00 | 12.9 |
| 1I | 137 | -0 | 7461 | 0 | 0 | 0 | 528 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.15 | 1.03 | 7.71 | 0.00 | 13.0 |
| 1J | 137 | -0 | 7557 | 0 | 0 | 0 | -519 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.15 | 1.04 | 7.81 | 0.00 | 12.9 |
| 2 | 137 | -0 | 11010 | 0 | 0 | 0 | -24 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.21 | 1.52 | 11.38 | 0.00 | 8.8 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 8.8 ( e armatura base = 4 X 0.79 )

**ASTA NUM. 8** NI 6878 NF 7292 SEZ. Rp B= 60.0 H= 30.0 (trave di fondazione)

armatura base = 4 X 0.79 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -16856 | -0 | 0 | -0 | 6101 | 1.57 | 1.57 | 6.28 | 3.93 | 0.15 | 0.96 | 0.33 | 2.16 | 17.42 | 0.00 | 5.8 |
| 1B | 0 | -0 | -15824 | -0 | 0 | -0 | 3595 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.31 | 2.18 | 16.35 | 0.00 | 6.1 |
| 1I | 0 | -0 | -17534 | -0 | 0 | 0 | 7748 | 1.57 | 1.57 | 7.85 | 3.93 | 0.17 | 0.99 | 0.34 | 2.09 | 18.12 | 0.00 | 5.5 |
| 1J | 0 | -0 | -15146 | -0 | 0 | 0 | 1948 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.48 | 0.29 | 2.09 | 15.65 | 0.00 | 6.4 |
| 2 | 0 | -0 | -24450 | -0 | 0 | -0 | 7072 | 1.57 | 1.57 | 7.07 | 3.93 | 0.16 | 1.00 | 0.48 | 3.01 | 25.26 | 0.00 | 4.0 |

apost= -- aant= -- ainf= 6.28 asup= 2.36 staffe= 2 d 8 / 4.0 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 30 | -0 | -16856 | -0 | 0 | 0 | 977 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.33 | 2.32 | 17.42 | 0.00 | 5.8 |
| 1B | 30 | -0 | -15824 | -0 | 0 | 0 | -1216 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.30 | 0.31 | 2.18 | 16.35 | 0.00 | 6.1 |
| 1I | 30 | -0 | -17534 | -0 | 0 | 0 | 2418 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.60 | 0.34 | 2.42 | 18.12 | 0.00 | 5.5 |
| 1J | 30 | -0 | -15146 | -0 | 0 | 0 | -2657 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.66 | 0.29 | 2.09 | 15.65 | 0.00 | 6.4 |
| 2 | 30 | -0 | -24450 | -0 | 0 | 0 | -361 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.09 | 0.48 | 3.37 | 25.26 | 0.00 | 4.0 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.0 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | -16856 | -0 | 0 | 0 | -4148 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.87 | 0.33 | 2.32 | 17.42 | 0.00 | 5.8 |
| 1B | 61 | -0 | -15824 | -0 | 0 | 0 | -6028 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.95 | 0.31 | 2.03 | 16.35 | 0.00 | 6.1 |
| 1I | 61 | -0 | -17534 | -0 | 0 | 0 | -2913 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.72 | 0.34 | 2.42 | 18.12 | 0.00 | 5.5 |
| 1J | 61 | -0 | -15146 | -0 | 0 | 0 | -7263 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.93 | 0.29 | 1.80 | 15.65 | 0.00 | 6.4 |
| 2 | 61 | -0 | -24450 | -0 | 0 | 0 | -7795 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.99 | 0.48 | 2.91 | 25.26 | 0.00 | 4.0 |

apost= -- aant= -- ainf= 2.36 asup= 6.28 staffe= 2 d 8 / 4.0 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 91 | -0 | -8146 | -0 | 0 | 0 | -6625 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.93 | 0.16 | 1.00 | 8.42 | 0.00 | 11.9 |
| 1B | 91 | -0 | -6860 | -0 | 0 | 0 | -8113 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.94 | 0.13 | 0.79 | 0.00 | 0.00 | 21.6 |
| 1I | 91 | -0 | -8990 | -0 | 0 | 0 | -5646 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.89 | 0.17 | 1.15 | 9.29 | 0.00 | 10.8 |
| 1J | 91 | -0 | -6016 | -0 | 0 | 0 | -9091 | 1.57 | 1.57 | 3.93 | 9.42 | 0.19 | 0.97 | 0.12 | 0.67 | 0.00 | 0.00 | 21.6 |
| 2 | 91 | -0 | -11350 | -0 | 0 | 0 | -11245 | 1.57 | 1.57 | 3.93 | 11.78 | 0.21 | 0.98 | 0.22 | 1.18 | 11.73 | 0.00 | 8.6 |

apost= -- aant= -- ainf= 2.36 asup= 10.21 staffe= 2 d 8 / 8.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | -8146 | -0 | 0 | 0 | -9101 | 1.57 | 1.57 | 3.93 | 9.42 | 0.19 | 0.98 | 0.16 | 0.91 | 0.00 | 0.00 | 21.6 |
| 1B | 122 | -0 | -6860 | -0 | 0 | 0 | -10199 | 1.57 | 1.57 | 3.93 | 11.00 | 0.20 | 0.94 | 0.13 | 0.73 | 0.00 | 0.00 | 21.6 |
| 1I | 122 | -0 | -8990 | -0 | 0 | 0 | -8380 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.98 | 0.17 | 1.04 | 9.29 | 0.00 | 10.8 |
| 1J | 122 | -0 | -6016 | -0 | 0 | 0 | -10920 | 1.57 | 1.57 | 3.93 | 11.78 | 0.21 | 0.95 | 0.12 | 0.63 | 0.00 | 0.00 | 21.6 |
| 2 | 122 | -0 | -11350 | -0 | 0 | 0 | -14695 | 1.57 | 1.57 | 3.93 | 15.71 | 0.25 | 0.97 | 0.22 | 1.07 | 11.73 | 0.00 | 8.6 |

apost= -- aant= -- ainf= 2.36 asup= 14.14 staffe= 2 d 8 / 8.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -0 | -1065 | 0 | 0 | 0 | -9425 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.94 | 0.02 | 0.12 | 0.00 | 0.00 | 21.6 |
| 1B | 152 | -0 | 573 | 0 | 0 | 0 | -10025 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 1.00 | 0.01 | 0.06 | 0.00 | 0.00 | 21.6 |
| 1I | 152 | -0 | -2140 | 0 | 0 | 0 | -9030 | 1.57 | 1.57 | 3.93 | 9.42 | 0.19 | 0.97 | 0.04 | 0.24 | 0.00 | 0.00 | 21.6 |
| 1J | 152 | -0 | 1649 | 0 | 0 | 0 | -10419 | 1.57 | 1.57 | 3.93 | 11.00 | 0.20 | 0.96 | 0.03 | 0.18 | 0.00 | 0.00 | 21.6 |
| 2 | 152 | -0 | -414 | -0 | 0 | 0 | -14817 | 1.57 | 1.57 | 3.93 | 15.71 | 0.25 | 0.98 | 0.01 | 0.04 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 14.14 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 182 | -0 | 6408 | 0 | 0 | 0 | -9748 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.97 | 0.12 | 0.70 | 0.00 | 0.00 | 21.6 |
| 1B | 182 | -0 | 8750 | 0 | 0 | 0 | -9851 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.98 | 0.17 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1I | 182 | -0 | 4870 | 0 | 0 | 0 | -9681 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.96 | 0.09 | 0.53 | 0.00 | 0.00 | 21.6 |
| 1J | 182 | -0 | 10288 | 0 | 0 | 0 | -9918 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.99 | 0.20 | 1.12 | 10.63 | 0.00 | 9.5 |
| 2 | 182 | -0 | 11620 | 0 | 0 | 0 | -14950 | 1.57 | 1.57 | 3.93 | 15.71 | 0.25 | 0.99 | 0.23 | 1.10 | 12.01 | 0.00 | 8.4 |

apost= -- aant= -- ainf= 2.36 asup= 14.14 staffe= 2 d 8 / 8.4 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 213 | -0 | 6408 | 0 | 0 | 0 | -7800 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.99 | 0.12 | 0.76 | 0.00 | 0.00 | 21.6 |
| 1B | 213 | -0 | 8750 | 0 | 0 | 0 | -7190 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.92 | 0.17 | 1.04 | 9.04 | 0.00 | 11.1 |
| 1I | 213 | -0 | 4870 | 0 | 0 | 0 | -8200 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.95 | 0.09 | 0.56 | 0.00 | 0.00 | 21.6 |
| 1J | 213 | -0 | 10288 | 0 | 0 | 0 | -6790 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.96 | 0.20 | 1.27 | 10.63 | 0.00 | 9.5 |
| 2 | 213 | -0 | 11620 | 0 | 0 | 0 | -11417 | 1.57 | 1.57 | 3.93 | 11.78 | 0.21 | 0.99 | 0.23 | 1.21 | 12.01 | 0.00 | 8.4 |

apost= -- aant= -- ainf= 2.36 asup= 10.21 staffe= 2 d 8 / 8.4 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 243 | -0 | 16435 | 0 | 0 | 0 | -5852 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.92 | 0.32 | 2.11 | 16.98 | 0.00 | 5.9 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 243 | -0 | 19845 | 0 | 0 | 0 | -5852 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.92 | 0.39 | 2.54 | 20.51 | 0.00 | 4.9 |
| 1I | 243 | -0 | 14194 | 0 | 0 | 0 | -6720 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.95 | 0.28 | 1.75 | 14.67 | 0.00 | 6.9 |
| 1J | 243 | -0 | 22086 | 0 | 0 | 0 | -6720 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.95 | 0.43 | 2.72 | 22.82 | 0.00 | 4.4 |
| 2 | 243 | -0 | 28060 | 0 | 0 | 0 | -7885 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.92 | 0.55 | 3.23 | 28.99 | 0.00 | 3.5 |

apost= --  aant= --  ainf= 2.36 asup= 7.07 staffe= 2 d  8 / 3.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 274 | -0 | 16435 | 0 | 0 | 0 | 1503 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.32 | 2.27 | 16.98 | 0.00 | 5.9 |
| 1B | 274 | -0 | 19845 | 0 | 0 | 0 | -855 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.39 | 2.74 | 20.51 | 0.00 | 4.9 |
| 1I | 274 | -0 | 14194 | 0 | 0 | 0 | 3052 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.28 | 1.96 | 14.67 | 0.00 | 6.9 |
| 1J | 274 | -0 | 22086 | 0 | 0 | 0 | -2405 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.60 | 0.43 | 3.05 | 22.82 | 0.00 | 4.4 |
| 2 | 274 | -0 | 28060 | 0 | 0 | -0 | 647 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.16 | 0.55 | 3.87 | 28.99 | 0.00 | 3.5 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 3.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 304 | -0 | 16435 | 0 | 0 | -0 | 7536 | 1.57 | 1.57 | 7.85 | 3.93 | 0.17 | 0.96 | 0.32 | 1.96 | 16.98 | 0.00 | 5.9 |
| 1B | 304 | -0 | 19845 | 0 | 0 | -0 | 4141 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.39 | 2.74 | 20.51 | 0.00 | 4.9 |
| 1I | 304 | -0 | 14194 | 0 | 0 | 0 | 9767 | 1.57 | 1.57 | 10.21 | 3.93 | 0.19 | 0.97 | 0.28 | 1.55 | 14.67 | 0.00 | 6.9 |
| 1J | 304 | -0 | 22086 | 0 | 0 | 0 | 1910 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.47 | 0.43 | 3.05 | 22.82 | 0.00 | 4.4 |
| 2 | 304 | -0 | 28060 | 0 | 0 | -0 | 9178 | 1.57 | 1.57 | 9.42 | 3.93 | 0.19 | 0.98 | 0.55 | 3.14 | 28.99 | 0.00 | 3.5 |

apost= --  aant= --  ainf= 8.64 asup= 2.36 staffe= 2 d  8 / 3.5  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 9**  NI 7292  NF 7253  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -9476 | 0 | 0 | -0 | 222 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.18 | 1.31 | 9.79 | 0.00 | 10.3 |
| 1B | 0 | -0 | -8608 | 0 | 0 | -0 | -231 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.17 | 1.19 | 8.89 | 0.00 | 11.3 |
| 1I | 0 | -0 | -10047 | 0 | 0 | -0 | 519 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.20 | 1.39 | 10.38 | 0.00 | 9.7 |
| 1J | 0 | -0 | -8037 | 0 | 0 | -0 | -528 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.16 | 1.11 | 8.30 | 0.00 | 12.1 |
| 2 | 0 | -0 | -14110 | 0 | 0 | -0 | 24 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.27 | 1.95 | 14.58 | 0.00 | 6.9 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 13 | -0 | -9476 | 0 | 0 | -0 | -994 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.18 | 1.31 | 9.79 | 0.00 | 10.3 |
| 1B | 13 | -0 | -8608 | 0 | 0 | -0 | -1336 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.17 | 1.19 | 8.89 | 0.00 | 11.3 |
| 1I | 13 | -0 | -10047 | 0 | 0 | -0 | -770 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.20 | 1.39 | 10.38 | 0.00 | 9.7 |
| 1J | 13 | -0 | -8037 | 0 | 0 | -0 | -1560 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.39 | 0.16 | 1.11 | 8.30 | 0.00 | 12.1 |
| 2 | 13 | -0 | -14110 | 0 | 0 | -0 | -1787 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.27 | 1.95 | 14.58 | 0.00 | 6.9 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 26 | -0 | -9476 | 0 | 0 | -0 | -2210 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.55 | 0.18 | 1.31 | 9.79 | 0.00 | 10.3 |
| 1B | 26 | -0 | -8608 | 0 | 0 | -0 | -2440 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.61 | 0.17 | 1.19 | 8.89 | 0.00 | 11.3 |
| 1I | 26 | -0 | -10047 | 0 | 0 | -0 | -2059 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.20 | 1.39 | 10.38 | 0.00 | 9.7 |
| 1J | 26 | -0 | -8037 | 0 | 0 | -0 | -2591 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.16 | 1.11 | 8.30 | 0.00 | 12.1 |
| 2 | 26 | -0 | -14110 | 0 | 0 | -0 | -3598 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.27 | 1.95 | 14.58 | 0.00 | 6.9 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -0 | -3231 | 0 | 0 | -0 | -2625 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.65 | 0.06 | 0.45 | 0.00 | 0.00 | 21.6 |
| 1B | 39 | -0 | -2731 | 0 | 0 | -0 | -2790 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.69 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1I | 39 | -0 | -3560 | 0 | 0 | -0 | -2516 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.07 | 0.49 | 0.00 | 0.00 | 21.6 |
| 1J | 39 | -0 | -2402 | 0 | 0 | -0 | -2899 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.72 | 0.05 | 0.33 | 0.00 | 0.00 | 21.6 |
| 2 | 39 | -0 | -4662 | 0 | 0 | -0 | -4196 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.88 | 0.09 | 0.64 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 3.14 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 51 | -0 | -3231 | 0 | 0 | -0 | -3040 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.76 | 0.06 | 0.45 | 0.00 | 0.00 | 21.6 |
| 1B | 51 | -0 | 3243 | 0 | 0 | -0 | -3142 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.78 | 0.06 | 0.45 | 0.00 | 0.00 | 21.6 |
| 1I | 51 | -0 | -3560 | 0 | 0 | -0 | -2974 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.07 | 0.49 | 0.00 | 0.00 | 21.6 |
| 1J | 51 | -0 | 3397 | 0 | 0 | -0 | -3208 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.80 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 2 | 51 | -0 | 4836 | -0 | 0 | -0 | -4795 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 1.00 | 0.09 | 0.67 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 3.14 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 64 | -0 | 3007 | -0 | 0 | -0 | -2654 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.66 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |
| 1B | 64 | -0 | 3243 | -0 | 0 | -0 | -2725 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.68 | 0.06 | 0.45 | 0.00 | 0.00 | 21.6 |
| 1I | 64 | -0 | 2853 | -0 | 0 | -0 | -2608 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.65 | 0.06 | 0.39 | 0.00 | 0.00 | 21.6 |
| 1J | 64 | -0 | 3397 | -0 | 0 | -0 | -2772 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.69 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 2 | 64 | -0 | 4836 | -0 | 0 | -0 | -4174 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.87 | 0.09 | 0.67 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 3.14 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 77 | -0 | 9300 | -0 | 0 | -0 | -2268 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.56 | 0.18 | 1.28 | 9.61 | 0.00 | 10.5 |
| 1B | 77 | -0 | 9374 | -0 | 0 | -0 | -2309 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.18 | 1.29 | 9.69 | 0.00 | 10.4 |
| 1I | 77 | -0 | 9251 | -0 | 0 | -0 | -2241 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.56 | 0.18 | 1.28 | 9.56 | 0.00 | 10.5 |
| 1J | 77 | -0 | 9423 | -0 | 0 | -0 | -2336 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.58 | 0.18 | 1.30 | 9.74 | 0.00 | 10.3 |
| 2 | 77 | -0 | 14470 | -0 | 0 | -0 | -3554 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.88 | 0.28 | 2.00 | 14.95 | 0.00 | 6.7 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.7  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 90 | -0 | 9300 | -0 | 0 | -0 | -1074 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.18 | 1.28 | 9.61 | 0.00 | 10.5 |
| 1B | 90 | -0 | 9374 | -0 | 0 | -0 | -1105 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.18 | 1.29 | 9.69 | 0.00 | 10.4 |
| 1I | 90 | -0 | 9251 | -0 | 0 | -0 | -1054 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.26 | 0.18 | 1.28 | 9.56 | 0.00 | 10.5 |
| 1J | 90 | -0 | 9423 | -0 | 0 | -0 | -1126 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.28 | 0.18 | 1.30 | 9.74 | 0.00 | 10.3 |
| 2 | 90 | -0 | 14470 | -0 | 0 | -0 | -1696 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.42 | 0.28 | 2.00 | 14.95 | 0.00 | 6.7 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 6.7  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 15691 | -0 | 0 | 0 | 119 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.31 | 2.16 | 16.21 | 0.00 | 6.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 103 | -0 | 15709 | -0 | 0 | 0 | 98 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.31 | 2.17 | 16.23 | 0.00 | 6.2 |
| 1I | 103 | -0 | 15678 | -0 | 0 | 0 | 134 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.30 | 2.16 | 16.20 | 0.00 | 6.2 |
| 1J | 103 | -0 | 15722 | -0 | 0 | 0 | 83 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.31 | 2.17 | 16.25 | 0.00 | 6.2 |
| 2 | 103 | -0 | 24310 | -0 | 0 | 0 | 161 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.47 | 3.35 | 25.12 | 0.00 | 4.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 4.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 116 | -0 | 15691 | -0 | 0 | 0 | 2132 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.31 | 2.16 | 16.21 | 0.00 | 6.2 |
| 1B | 116 | -0 | 15709 | -0 | 0 | 0 | 2113 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.31 | 2.17 | 16.23 | 0.00 | 6.2 |
| 1I | 116 | -0 | 15678 | -0 | 0 | 0 | 2145 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.53 | 0.30 | 2.16 | 16.20 | 0.00 | 6.2 |
| 1J | 116 | -0 | 15722 | -0 | 0 | 0 | 2100 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.52 | 0.31 | 2.17 | 16.25 | 0.00 | 6.2 |
| 2 | 116 | -0 | 24310 | -0 | 0 | 0 | 3281 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.82 | 0.47 | 3.35 | 25.12 | 0.00 | 4.0 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 4.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 128 | -0 | 15691 | -0 | 0 | 0 | 4146 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.31 | 2.16 | 16.21 | 0.00 | 6.2 |
| 1B | 128 | -0 | 15709 | -0 | 0 | 0 | 4129 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.31 | 2.17 | 16.23 | 0.00 | 6.2 |
| 1I | 128 | -0 | 15678 | -0 | 0 | 0 | 4157 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.87 | 0.30 | 2.16 | 16.20 | 0.00 | 6.2 |
| 1J | 128 | -0 | 15722 | -0 | 0 | 0 | 4118 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.31 | 2.17 | 16.25 | 0.00 | 6.2 |
| 2 | 128 | -0 | 24310 | -0 | 0 | 0 | 6401 | 1.57 | 1.57 | 7.07 | 3.93 | 0.16 | 0.90 | 0.47 | 3.00 | 25.12 | 0.00 | 4.0 |

apost= --  aant= --  ainf= 5.50 asup= 2.36 staffe= 2 d  8 / 4.0  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 10**  NI 7253  NF 7211  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -13328 | 0 | 0 | 0 | 4145 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.26 | 1.84 | 13.77 | 0.00 | 7.3 |
| 1B | 0 | -0 | -13152 | 0 | 0 | 0 | 4129 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.26 | 1.81 | 13.59 | 0.00 | 7.4 |
| 1I | 0 | -0 | -13444 | 0 | 0 | 0 | 4157 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.87 | 0.26 | 1.85 | 13.89 | 0.00 | 7.2 |
| 1J | 0 | -0 | -13036 | 0 | 0 | 0 | 4117 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.86 | 0.25 | 1.80 | 13.47 | 0.00 | 7.5 |
| 2 | 0 | -0 | -20430 | 0 | 0 | 0 | 6401 | 1.57 | 1.57 | 7.07 | 3.93 | 0.16 | 0.90 | 0.40 | 2.52 | 21.11 | 0.00 | 4.8 |

apost= --  aant= --  ainf= 5.50 asup= 2.36 staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 13 | -0 | -13328 | 0 | 0 | 0 | 2457 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.61 | 0.26 | 1.84 | 13.77 | 0.00 | 7.3 |
| 1B | 13 | -0 | -13152 | 0 | 0 | 0 | 2418 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.60 | 0.26 | 1.81 | 13.59 | 0.00 | 7.4 |
| 1I | 13 | -0 | -13444 | 0 | 0 | 0 | 2483 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.62 | 0.26 | 1.85 | 13.89 | 0.00 | 7.2 |
| 1J | 13 | -0 | -13036 | 0 | 0 | 0 | 2392 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.59 | 0.25 | 1.80 | 13.47 | 0.00 | 7.5 |
| 2 | 13 | -0 | -20430 | 0 | 0 | 0 | 3779 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.94 | 0.40 | 2.82 | 21.11 | 0.00 | 4.8 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 26 | -0 | -13328 | 0 | 0 | 0 | 769 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.26 | 1.84 | 13.77 | 0.00 | 7.3 |
| 1B | 26 | -0 | -13152 | 0 | 0 | 0 | 707 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.26 | 1.81 | 13.59 | 0.00 | 7.4 |
| 1I | 26 | -0 | -13444 | 0 | 0 | 0 | 810 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.26 | 1.85 | 13.89 | 0.00 | 7.2 |
| 1J | 26 | -0 | -13036 | 0 | 0 | 0 | 667 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.17 | 0.25 | 1.80 | 13.47 | 0.00 | 7.5 |
| 2 | 26 | -0 | -20430 | 0 | 0 | 0 | 1157 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.29 | 0.40 | 2.82 | 21.11 | 0.00 | 4.8 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 39 | -0 | -6683 | 0 | 0 | -0 | -87 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1B | 39 | -0 | -6663 | 0 | 0 | -0 | -151 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1I | 39 | -0 | -6697 | 0 | 0 | -0 | -44 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1J | 39 | -0 | -6649 | 0 | 0 | -0 | -194 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 2 | 39 | -0 | -10310 | 0 | 0 | -0 | -167 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.20 | 1.42 | 10.65 | 0.00 | 9.4 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 51 | -0 | -6683 | 0 | 0 | -0 | -942 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1B | 51 | -0 | -6663 | 0 | 0 | -0 | -1009 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1I | 51 | -0 | -6697 | 0 | 0 | -0 | -898 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1J | 51 | -0 | -6649 | 0 | 0 | -0 | -1053 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.26 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 2 | 51 | -0 | -10310 | 0 | 0 | -0 | -1491 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.20 | 1.42 | 10.65 | 0.00 | 9.4 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 64 | -0 | -172 | 0 | 0 | -0 | -964 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.00 | 0.02 | 0.00 | 0.00 | 21.6 |
| 1B | 64 | -0 | 69 | 0 | 0 | -0 | -1000 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.00 | 0.01 | 0.00 | 0.00 | 21.6 |
| 1I | 64 | -0 | -331 | 0 | 0 | -0 | -940 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.23 | 0.01 | 0.05 | 0.00 | 0.00 | 21.6 |
| 1J | 64 | -0 | 228 | 0 | 0 | -0 | -1024 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.00 | 0.03 | 0.00 | 0.00 | 21.6 |
| 2 | 64 | -0 | -137 | 0 | 0 | -0 | -1509 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.00 | 0.02 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 77 | -0 | 6336 | -0 | 0 | -0 | -986 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1B | 77 | -0 | 6948 | -0 | 0 | -0 | -991 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.14 | 0.96 | 0.00 | 0.00 | 21.6 |
| 1I | 77 | -0 | 5934 | -0 | 0 | -0 | -982 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.12 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1J | 77 | -0 | 7350 | -0 | 0 | -0 | -995 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.25 | 0.14 | 1.01 | 7.59 | 0.00 | 13.2 |
| 2 | 77 | -0 | 10130 | -0 | 0 | -0 | -1526 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.38 | 0.20 | 1.40 | 10.47 | 0.00 | 9.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 90 | -0 | 6336 | -0 | 0 | -0 | -173 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.04 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1B | 90 | -0 | 6948 | -0 | 0 | -0 | -100 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.14 | 0.96 | 0.00 | 0.00 | 21.6 |
| 1I | 90 | -0 | 5934 | -0 | 0 | -0 | -221 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.12 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1J | 90 | -0 | 7350 | -0 | 0 | -0 | -52 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.14 | 1.01 | 7.59 | 0.00 | 13.2 |
| 2 | 90 | -0 | 10130 | -0 | 0 | -0 | -226 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.06 | 0.20 | 1.40 | 10.47 | 0.00 | 9.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 9.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 12885 | -0 | 0 | 0 | 792 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.25 | 1.78 | 13.31 | 0.00 | 7.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 103 | -0 | 13975 | -0 | 0 | 0 | 792 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.27 | 1.93 | 14.44 | 0.00 | 7.0 |
| 1I | 103 | -0 | 12169 | -0 | 0 | 0 | 892 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.24 | 1.68 | 12.57 | 0.00 | 8.0 |
| 1J | 103 | -0 | 14691 | -0 | 0 | 0 | 891 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.29 | 2.03 | 15.18 | 0.00 | 6.6 |
| 2 | 103 | -0 | 20510 | -0 | 0 | 0 | 1074 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.40 | 2.83 | 21.19 | 0.00 | 4.7 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.7 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 116 | -0 | 12885 | -0 | 0 | 0 | 2585 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.25 | 1.78 | 13.31 | 0.00 | 7.6 |
| 1B | 116 | -0 | 13975 | -0 | 0 | 0 | 2294 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.27 | 1.93 | 14.44 | 0.00 | 7.0 |
| 1I | 116 | -0 | 12169 | -0 | 0 | 0 | 2777 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.69 | 0.24 | 1.68 | 12.57 | 0.00 | 8.0 |
| 1J | 116 | -0 | 14691 | -0 | 0 | 0 | 2103 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.52 | 0.29 | 2.03 | 15.18 | 0.00 | 6.6 |
| 2 | 116 | -0 | 20510 | -0 | 0 | 0 | 3705 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.40 | 2.83 | 21.19 | 0.00 | 4.7 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.7 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 128 | -0 | 12885 | -0 | 0 | 0 | 4379 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.91 | 0.25 | 1.78 | 13.31 | 0.00 | 7.6 |
| 1B | 128 | -0 | 13975 | -0 | 0 | 0 | 3948 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.98 | 0.27 | 1.93 | 14.44 | 0.00 | 7.0 |
| 1I | 128 | -0 | 12169 | -0 | 0 | 0 | 4662 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.97 | 0.24 | 1.68 | 12.57 | 0.00 | 8.0 |
| 1J | 128 | -0 | 14691 | -0 | 0 | 0 | 3664 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.91 | 0.29 | 2.03 | 15.18 | 0.00 | 6.6 |
| 2 | 128 | -0 | 20510 | -0 | 0 | 0 | 6337 | 1.57 | 1.57 | 7.07 | 3.93 | 0.16 | 0.89 | 0.40 | 2.53 | 21.19 | 0.00 | 4.7 |

apost= -- aant= -- ainf= 5.50 asup= 2.36 staffe= 2 d 8 / 4.7 ( e armatura base = 4 X 0.79 )

**ASTA NUM. 11** NI 7211 NF 7267 SEZ. Rp B= 60.0 H= 30.0 (trave di fondazione)

armatura base = 4 X 0.79 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -17136 | 0 | 0 | 0 | 4380 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.91 | 0.33 | 2.36 | 17.71 | 0.00 | 5.7 |
| 1B | 0 | -0 | -15324 | 0 | 0 | 0 | 3948 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.98 | 0.30 | 2.11 | 15.83 | 0.00 | 6.3 |
| 1I | 0 | -0 | -18326 | 0 | 0 | 0 | 4663 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.97 | 0.36 | 2.53 | 18.94 | 0.00 | 5.3 |
| 1J | 0 | -0 | -14134 | 0 | 0 | 0 | 3665 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.91 | 0.27 | 1.95 | 14.60 | 0.00 | 6.9 |
| 2 | 0 | -0 | -24680 | 0 | 0 | 0 | 6339 | 1.57 | 1.57 | 7.07 | 3.93 | 0.16 | 0.89 | 0.48 | 3.04 | 25.50 | 0.00 | 3.9 |

apost= -- aant= -- ainf= 5.50 asup= 2.36 staffe= 2 d 8 / 3.9 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 14 | -0 | -17136 | 0 | 0 | 0 | 1923 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.48 | 0.33 | 2.36 | 17.71 | 0.00 | 5.7 |
| 1B | 14 | -0 | -15324 | 0 | 0 | 0 | 1752 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.44 | 0.30 | 2.11 | 15.83 | 0.00 | 6.3 |
| 1I | 14 | -0 | -18326 | 0 | 0 | 0 | 2036 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.36 | 2.53 | 18.94 | 0.00 | 5.3 |
| 1J | 14 | -0 | -14134 | 0 | 0 | 0 | 1639 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.41 | 0.27 | 1.95 | 14.60 | 0.00 | 6.9 |
| 2 | 14 | -0 | -24680 | 0 | 0 | 0 | 2801 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.70 | 0.48 | 3.40 | 25.50 | 0.00 | 3.9 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 3.9 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 29 | -0 | -17136 | 0 | 0 | -0 | -533 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.33 | 2.36 | 17.71 | 0.00 | 5.7 |
| 1B | 29 | -0 | -15324 | 0 | 0 | -0 | -533 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.30 | 2.11 | 15.83 | 0.00 | 6.3 |
| 1I | 29 | -0 | -18326 | 0 | 0 | 0 | -591 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.15 | 0.36 | 2.53 | 18.94 | 0.00 | 5.3 |
| 1J | 29 | -0 | -14134 | 0 | 0 | 0 | -591 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.15 | 0.27 | 1.95 | 14.60 | 0.00 | 6.9 |
| 2 | 29 | -0 | -24680 | 0 | 0 | -0 | -737 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.48 | 3.40 | 25.50 | 0.00 | 3.9 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 3.9 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 43 | -0 | -9083 | 0 | 0 | -0 | -1598 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.40 | 0.18 | 1.25 | 9.39 | 0.00 | 10.7 |
| 1B | 43 | -0 | -8045 | 0 | 0 | -0 | -1835 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.16 | 1.11 | 8.31 | 0.00 | 12.1 |
| 1I | 43 | -0 | -9765 | 0 | 0 | -0 | -1442 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 1J | 43 | -0 | -7363 | 0 | 0 | -0 | -1991 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.49 | 0.14 | 1.02 | 7.61 | 0.00 | 13.2 |
| 2 | 43 | -0 | -13010 | 0 | 0 | -0 | -2602 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.65 | 0.25 | 1.79 | 13.44 | 0.00 | 7.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 7.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 57 | -0 | -9083 | 0 | 0 | -0 | -2751 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.68 | 0.18 | 1.25 | 9.39 | 0.00 | 10.7 |
| 1B | 57 | -0 | -8045 | 0 | 0 | -0 | -3137 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.78 | 0.16 | 1.11 | 8.31 | 0.00 | 12.1 |
| 1I | 57 | -0 | -9765 | 0 | 0 | -0 | -2497 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.62 | 0.19 | 1.35 | 10.09 | 0.00 | 10.0 |
| 1J | 57 | -0 | -7363 | 0 | 0 | -0 | -3391 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.84 | 0.14 | 1.02 | 7.61 | 0.00 | 13.2 |
| 2 | 57 | -0 | -13010 | 0 | 0 | -0 | -4466 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.93 | 0.25 | 1.79 | 13.44 | 0.00 | 7.5 |

apost= -- aant= -- ainf= 2.36 asup= 3.14 staffe= 2 d 8 / 7.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 72 | -0 | -961 | 0 | 0 | -0 | -2868 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.71 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |
| 1B | 72 | -0 | -819 | 0 | 0 | -0 | -3275 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.81 | 0.02 | 0.11 | 0.00 | 0.00 | 21.6 |
| 1I | 72 | -0 | -1055 | 0 | 0 | -0 | -2601 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.65 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 1J | 72 | -0 | -726 | 0 | 0 | -0 | -3542 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.88 | 0.01 | 0.10 | 0.00 | 0.00 | 21.6 |
| 2 | 72 | -0 | -1345 | 0 | 0 | -0 | -4658 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.97 | 0.03 | 0.19 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 3.14 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 6422 | -0 | 0 | -0 | -2986 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.74 | 0.12 | 0.89 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 7310 | -0 | 0 | -0 | -3413 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.85 | 0.14 | 1.01 | 7.55 | 0.00 | 13.3 |
| 1I | 86 | -0 | 5839 | -0 | 0 | -0 | -2705 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.67 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 7893 | -0 | 0 | -0 | -3693 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.92 | 0.15 | 1.09 | 8.16 | 0.00 | 12.3 |
| 2 | 86 | -0 | 10410 | -0 | 0 | -0 | -4851 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.87 | 0.20 | 1.40 | 10.76 | 0.00 | 9.3 |

apost= -- aant= -- ainf= 2.36 asup= 3.93 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 100 | -0 | 6422 | -0 | 0 | -0 | -2065 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.51 | 0.12 | 0.89 | 0.00 | 0.00 | 21.6 |
| 1B | 100 | -0 | 7310 | -0 | 0 | -0 | -2365 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.59 | 0.14 | 1.01 | 7.55 | 0.00 | 13.3 |
| 1I | 100 | -0 | 5839 | -0 | 0 | -0 | -1868 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1J | 100 | -0 | 7893 | -0 | 0 | -0 | -2561 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.15 | 1.09 | 8.16 | 0.00 | 12.3 |
| 2 | 100 | -0 | 10410 | -0 | 0 | -0 | -3359 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.84 | 0.20 | 1.44 | 10.76 | 0.00 | 9.3 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 9.3 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 115 | -0 | 13759 | -0 | 0 | -0 | -1145 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.28 | 0.27 | 1.90 | 14.22 | 0.00 | 7.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 115 | -0 | 15821 | -0 | 0 | -0 | -1317 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.31 | 2.18 | 16.35 | 0.00 | 6.1 |
| 1I | 115 | -0 | 12405 | -0 | 0 | -0 | -1032 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.26 | 0.24 | 1.71 | 12.82 | 0.00 | 7.8 |
| 1J | 115 | -0 | 17175 | -0 | 0 | -0 | -1430 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.33 | 2.37 | 17.75 | 0.00 | 5.7 |
| 2 | 115 | -0 | 22400 | -0 | 0 | -0 | -1867 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.44 | 3.09 | 23.15 | 0.00 | 4.3 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.3 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 129 | -0 | 13759 | -0 | 0 | 0 | 827 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.27 | 1.90 | 14.22 | 0.00 | 7.1 |
| 1B | 129 | -0 | 15821 | -0 | 0 | 0 | 950 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.24 | 0.31 | 2.18 | 16.35 | 0.00 | 6.1 |
| 1I | 129 | -0 | 12405 | -0 | 0 | 0 | 746 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.24 | 1.71 | 12.82 | 0.00 | 7.8 |
| 1J | 129 | -0 | 17175 | -0 | 0 | 0 | 1031 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.26 | 0.33 | 2.37 | 17.75 | 0.00 | 5.7 |
| 2 | 129 | -0 | 22400 | -0 | 0 | 0 | 1345 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.44 | 3.09 | 23.15 | 0.00 | 4.3 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 4.3 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 143 | -0 | 13759 | -0 | 0 | 0 | 2799 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.70 | 0.27 | 1.90 | 14.22 | 0.00 | 7.1 |
| 1B | 143 | -0 | 15821 | -0 | 0 | 0 | 3218 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.80 | 0.31 | 2.18 | 16.35 | 0.00 | 6.1 |
| 1I | 143 | -0 | 12405 | -0 | 0 | 0 | 2524 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.24 | 1.71 | 12.82 | 0.00 | 7.8 |
| 1J | 143 | -0 | 17175 | -0 | 0 | 0 | 3493 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.87 | 0.33 | 2.37 | 17.75 | 0.00 | 5.7 |
| 2 | 143 | -0 | 22400 | -0 | 0 | 0 | 4555 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.95 | 0.44 | 3.09 | 23.15 | 0.00 | 4.3 |

apost= -- aant= -- ainf= 3.14 asup= 2.36 staffe= 2 d 8 / 4.3 ( e armatura base = 4 X 0.79 )

**ASTA NUM. 12** NI 7267 NF 7254 SEZ. Rp B= 60.0 H= 30.0 (trave di fondazione)

armatura base = 4 X 0.79 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -12684 | 0 | 0 | 0 | 3217 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.80 | 0.25 | 1.75 | 13.11 | 0.00 | 7.7 |
| 1B | 0 | -0 | -10835 | 0 | 0 | 0 | 2799 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.70 | 0.21 | 1.49 | 11.20 | 0.00 | 9.0 |
| 1I | 0 | -0 | -13899 | 0 | 0 | 0 | 3492 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.87 | 0.27 | 1.92 | 14.36 | 0.00 | 7.0 |
| 1J | 0 | -0 | -9621 | 0 | 0 | 0 | 2524 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.19 | 1.33 | 9.94 | 0.00 | 10.1 |
| 2 | 0 | -0 | -17760 | 0 | 0 | 0 | 4555 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 0.95 | 0.35 | 2.45 | 18.35 | 0.00 | 5.5 |

apost= -- aant= -- ainf= 3.14 asup= 2.36 staffe= 2 d 8 / 5.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 5 | -0 | -12684 | 0 | 0 | 0 | 2532 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.63 | 0.25 | 1.75 | 13.11 | 0.00 | 7.7 |
| 1B | 5 | -0 | -10835 | 0 | 0 | 0 | 2214 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.55 | 0.21 | 1.49 | 11.20 | 0.00 | 9.0 |
| 1I | 5 | -0 | -13899 | 0 | 0 | 0 | 2742 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.68 | 0.27 | 1.92 | 14.36 | 0.00 | 7.0 |
| 1J | 5 | -0 | -9621 | 0 | 0 | 0 | 2004 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.50 | 0.19 | 1.33 | 9.94 | 0.00 | 10.1 |
| 2 | 5 | -0 | -17760 | 0 | 0 | 0 | 3596 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.35 | 2.45 | 18.35 | 0.00 | 5.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 11 | -0 | -12684 | 0 | 0 | 0 | 1847 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.46 | 0.25 | 1.75 | 13.11 | 0.00 | 7.7 |
| 1B | 11 | -0 | -10835 | 0 | 0 | 0 | 1629 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.40 | 0.21 | 1.49 | 11.20 | 0.00 | 9.0 |
| 1I | 11 | -0 | -13899 | 0 | 0 | 0 | 1991 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.50 | 0.27 | 1.92 | 14.36 | 0.00 | 7.0 |
| 1J | 11 | -0 | -9621 | 0 | 0 | 0 | 1485 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.37 | 0.19 | 1.33 | 9.94 | 0.00 | 10.1 |
| 2 | 11 | -0 | -17760 | 0 | 0 | 0 | 2637 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.66 | 0.35 | 2.45 | 18.35 | 0.00 | 5.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 5.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 16 | -0 | -9346 | 0 | 0 | 0 | 1343 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.18 | 1.29 | 9.66 | 0.00 | 10.4 |
| 1B | 16 | -0 | -8014 | 0 | 0 | 0 | 1196 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.30 | 0.16 | 1.11 | 8.28 | 0.00 | 12.1 |
| 1I | 16 | -0 | -10220 | 0 | 0 | 0 | 1439 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.20 | 1.41 | 10.56 | 0.00 | 9.5 |
| 1J | 16 | -0 | -7140 | 0 | 0 | 0 | 1099 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.27 | 0.14 | 0.98 | 0.00 | 0.00 | 21.6 |
| 2 | 16 | -0 | -13120 | 0 | 0 | 0 | 1929 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.48 | 0.26 | 1.81 | 13.56 | 0.00 | 7.4 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 7.4 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 22 | -0 | -9346 | 0 | 0 | 0 | 838 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.21 | 0.18 | 1.29 | 9.66 | 0.00 | 10.4 |
| 1B | 22 | -0 | -8014 | 0 | 0 | 0 | 764 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.16 | 1.11 | 8.28 | 0.00 | 12.1 |
| 1I | 22 | -0 | -10220 | 0 | 0 | 0 | 888 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.22 | 0.20 | 1.41 | 10.56 | 0.00 | 9.5 |
| 1J | 22 | -0 | -7140 | 0 | 0 | 0 | 714 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.18 | 0.14 | 0.98 | 0.00 | 0.00 | 21.6 |
| 2 | 22 | -0 | -13120 | 0 | 0 | 0 | 1220 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.30 | 0.26 | 1.81 | 13.56 | 0.00 | 7.4 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 7.4 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 27 | -0 | -5984 | 0 | 0 | 0 | 515 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |
| 1B | 27 | -0 | -5190 | 0 | 0 | 0 | 483 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.12 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1I | 27 | -0 | -6506 | 0 | 0 | 0 | 536 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.13 | 0.13 | 0.90 | 0.00 | 0.00 | 21.6 |
| 1J | 27 | -0 | -4668 | 0 | 0 | 0 | 462 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.11 | 0.09 | 0.64 | 0.00 | 0.00 | 21.6 |
| 2 | 27 | -0 | -8455 | 0 | 0 | 0 | 763 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.19 | 0.16 | 1.17 | 8.74 | 0.00 | 11.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 11.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 32 | -0 | -5984 | 0 | 0 | 0 | 203 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |
| 1B | 32 | -0 | -5190 | 0 | 0 | 0 | 203 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1I | 32 | -0 | -6506 | 0 | 0 | 0 | 210 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.13 | 0.90 | 0.00 | 0.00 | 21.6 |
| 1J | 32 | -0 | -4668 | 0 | 0 | 0 | 210 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.09 | 0.64 | 0.00 | 0.00 | 21.6 |
| 2 | 32 | -0 | -8455 | 0 | 0 | 0 | 307 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.08 | 0.16 | 1.17 | 8.74 | 0.00 | 11.5 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 11.5 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 38 | -0 | -2596 | 0 | 0 | 0 | 76 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.05 | 0.36 | 0.00 | 0.00 | 21.6 |
| 1B | 38 | -0 | -2358 | 0 | 0 | 0 | 52 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.05 | 0.33 | 0.00 | 0.00 | 21.6 |
| 1I | 38 | -0 | -2752 | 0 | 0 | 0 | 91 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1J | 38 | -0 | -2202 | 0 | 0 | 0 | 37 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 2 | 38 | -0 | -3773 | 0 | 0 | 0 | 104 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |

apost= -- aant= -- ainf= 2.36 asup= 2.36 staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 43 | -0 | -2596 | 0 | 0 | 0 | -52 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.05 | 0.36 | 0.00 | 0.00 | 21.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 43 | -0 | -2358 | 0 | 0 | 0 | -88 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.05 | 0.33 | 0.00 | 0.00 | 21.6 |
| 1I | 43 | -0 | -2752 | 0 | 0 | 0 | -28 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1J | 43 | -0 | -2202 | 0 | 0 | 0 | -112 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.03 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 2 | 43 | -0 | -3773 | 0 | 0 | -0 | -100 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.02 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | 479 | -0 | 0 | -0 | -26 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | 817 | -0 | 0 | -0 | -44 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.02 | 0.11 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | 256 | -0 | 0 | -0 | -14 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | 1039 | -0 | 0 | -0 | -56 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.02 | 0.14 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | 929 | -0 | 0 | -0 | -50 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.01 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 54 | -0 | 479 | -0 | 0 | -0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.05 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 21.6 |
| 1B | 54 | -0 | 817 | -0 | 0 | -0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.05 | 0.00 | 0.02 | 0.11 | 0.00 | 0.00 | 21.6 |
| 1I | 54 | -0 | 256 | -0 | 0 | -0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.04 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 21.6 |
| 1J | 54 | -0 | 1039 | -0 | 0 | -0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.06 | 0.00 | 0.02 | 0.14 | 0.00 | 0.00 | 21.6 |
| 2 | 54 | -0 | 929 | -0 | 0 | -0 | 0 | 1.57 | 1.57 | 3.93 | 3.93 | 0.07 | 0.00 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 13**  NI 17700  NF 2200  SEZ.  Rp  B= 80.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | -5169 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |
| 1B | 0 | -0 | -4585 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 1I | 0 | -0 | -5844 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.09 | 0.60 | 0.00 | 0.00 | 21.6 |
| 1J | 0 | -0 | -3910 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.06 | 0.40 | 0.00 | 0.00 | 21.6 |
| 2 | 0 | -0 | -6626 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 12 | -0 | -5169 | -0 | 0 | 0 | -561 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.10 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |
| 1B | 12 | -0 | -4585 | -0 | 0 | 0 | -632 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 1I | 12 | -0 | -5844 | -0 | 0 | 0 | -478 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.09 | 0.60 | 0.00 | 0.00 | 21.6 |
| 1J | 12 | -0 | -3910 | -0 | 0 | 0 | -715 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.06 | 0.40 | 0.00 | 0.00 | 21.6 |
| 2 | 12 | -0 | -6626 | -0 | 0 | 0 | -811 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 24 | -0 | -5169 | -0 | 0 | 0 | -1122 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.20 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |
| 1B | 24 | -0 | -4585 | -0 | 0 | 0 | -1265 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.23 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 1I | 24 | -0 | -5844 | -0 | 0 | 0 | -957 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.09 | 0.60 | 0.00 | 0.00 | 21.6 |
| 1J | 24 | -0 | -3910 | -0 | 0 | 0 | -1430 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.06 | 0.40 | 0.00 | 0.00 | 21.6 |
| 2 | 24 | -0 | -6626 | -0 | 0 | 0 | -1621 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.29 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -0 | -1941 | -0 | 0 | 0 | -1335 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.24 | 0.03 | 0.20 | 0.00 | 0.00 | 21.6 |
| 1B | 37 | -0 | -1745 | -0 | 0 | 0 | -1502 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.27 | 0.03 | 0.18 | 0.00 | 0.00 | 21.6 |
| 1I | 37 | -0 | -2167 | -0 | 0 | 0 | -1142 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.20 | 0.03 | 0.22 | 0.00 | 0.00 | 21.6 |
| 1J | 37 | -0 | -1519 | -0 | 0 | 0 | -1695 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.30 | 0.02 | 0.16 | 0.00 | 0.00 | 21.6 |
| 2 | 37 | -0 | -2546 | -0 | 0 | 0 | -1932 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.34 | 0.04 | 0.26 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | -1941 | -0 | 0 | 0 | -1549 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.03 | 0.20 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | -1745 | -0 | 0 | 0 | -1739 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.03 | 0.18 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | -2167 | 0 | 0 | 0 | -1328 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.24 | 0.03 | 0.22 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | 1672 | 0 | 0 | 0 | -1960 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.02 | 0.17 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | -2546 | -0 | 0 | 0 | -2244 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.40 | 0.04 | 0.26 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | 1285 | 0 | 0 | 0 | -1391 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | 1465 | 0 | 0 | 0 | -1560 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | 1078 | 0 | 0 | 0 | -1196 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.21 | 0.02 | 0.11 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | 1672 | 0 | 0 | 0 | -1755 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.02 | 0.17 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | 1861 | 0 | 0 | 0 | -2016 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.03 | 0.19 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -0 | 4529 | 0 | 0 | 0 | -1235 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 1B | 73 | -0 | 5073 | 0 | 0 | 0 | -1381 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |
| 1I | 73 | -0 | 3899 | 0 | 0 | 0 | -1065 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.06 | 0.40 | 0.00 | 0.00 | 21.6 |
| 1J | 73 | -0 | 5703 | 0 | 0 | 0 | -1551 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.08 | 0.59 | 0.00 | 0.00 | 21.6 |
| 2 | 73 | -0 | 6632 | 0 | 0 | 0 | -1789 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.32 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 4529 | 0 | 0 | 0 | -680 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.12 | 0.07 | 0.47 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 5073 | 0 | 0 | 0 | -761 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |
| 1I | 86 | -0 | 3899 | 0 | 0 | 0 | -588 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.10 | 0.06 | 0.40 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 5703 | 0 | 0 | 0 | -853 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.08 | 0.59 | 0.00 | 0.00 | 21.6 |
| 2 | 86 | -0 | 6632 | 0 | 0 | 0 | -978 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.10 | 0.69 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 8007 | 0 | 0 | -0 | -126 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 98 | -0 | 8909 | 0 | 0 | -0 | -140 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1I | 98 | -0 | 6964 | 0 | 0 | 0 | -111 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 9952 | 0 | 0 | 0 | -156 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.15 | 1.03 | 10.28 | 0.00 | 9.8 |
| 2 | 98 | -0 | 11790 | 0 | 0 | -0 | -166 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.17 | 1.22 | 12.18 | 0.00 | 8.3 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 8.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 8007 | 0 | 0 | -0 | 853 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |
| 1B | 110 | -0 | 8909 | 0 | 0 | -0 | 950 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1I | 110 | -0 | 6964 | 0 | 0 | -0 | 742 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1J | 110 | -0 | 9952 | 0 | 0 | -0 | 1062 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.15 | 1.03 | 10.28 | 0.00 | 9.8 |
| 2 | 110 | -0 | 11790 | 0 | 0 | -0 | 1276 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.23 | 0.17 | 1.22 | 12.18 | 0.00 | 8.3 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 8.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | 8007 | 0 | 0 | -0 | 1833 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.33 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |
| 1B | 122 | -0 | 8909 | 0 | 0 | -0 | 2040 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.13 | 0.92 | 0.00 | 0.00 | 21.6 |
| 1I | 122 | -0 | 6964 | 0 | 0 | -0 | 1593 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1J | 122 | -0 | 9952 | 0 | 0 | -0 | 2280 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.41 | 0.15 | 1.03 | 10.28 | 0.00 | 9.8 |
| 2 | 122 | -0 | 11790 | 0 | 0 | -0 | 2719 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.48 | 0.17 | 1.22 | 12.18 | 0.00 | 8.3 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 8.3  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 14**  NI 2200  NF 2038  SEZ.  Rp  B= 80.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -7815 | -0 | 0 | -0 | 2040 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1B | 0 | -0 | -7101 | -0 | 0 | -0 | 1832 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.33 | 0.10 | 0.73 | 0.00 | 0.00 | 21.6 |
| 1I | 0 | -0 | -8639 | -0 | 0 | -0 | 2279 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.41 | 0.13 | 0.89 | 0.00 | 0.00 | 21.6 |
| 1J | 0 | -0 | -6277 | -0 | 0 | -0 | 1593 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.09 | 0.65 | 0.00 | 0.00 | 21.6 |
| 2 | 0 | -0 | -10660 | -0 | 0 | -0 | 2718 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.48 | 0.16 | 1.10 | 11.01 | 0.00 | 9.1 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.1  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 12 | -0 | -7815 | -0 | 0 | -0 | 1084 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1B | 12 | -0 | -7101 | -0 | 0 | -0 | 964 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.10 | 0.73 | 0.00 | 0.00 | 21.6 |
| 1I | 12 | -0 | -8639 | -0 | 0 | -0 | 1222 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.13 | 0.89 | 0.00 | 0.00 | 21.6 |
| 1J | 12 | -0 | -6277 | -0 | 0 | -0 | 825 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.09 | 0.65 | 0.00 | 0.00 | 21.6 |
| 2 | 12 | -0 | -10660 | -0 | 0 | -0 | 1414 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.16 | 1.10 | 11.01 | 0.00 | 9.1 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.1  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 24 | -0 | -7815 | -0 | 0 | -0 | 127 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1B | 24 | -0 | -7101 | -0 | 0 | -0 | 95 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.10 | 0.73 | 0.00 | 0.00 | 21.6 |
| 1I | 24 | -0 | -8639 | -0 | 0 | -0 | 165 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.13 | 0.89 | 0.00 | 0.00 | 21.6 |
| 1J | 24 | -0 | -6277 | -0 | 0 | -0 | 57 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.01 | 0.09 | 0.65 | 0.00 | 0.00 | 21.6 |
| 2 | 24 | -0 | -10660 | -0 | 0 | -0 | 110 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.16 | 1.10 | 11.01 | 0.00 | 9.1 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.1  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -0 | -3559 | -0 | 0 | 0 | -308 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.05 | 0.37 | 0.00 | 0.00 | 21.6 |
| 1B | 37 | -0 | -3185 | -0 | 0 | 0 | -295 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.05 | 0.33 | 0.00 | 0.00 | 21.6 |
| 1I | 37 | -0 | -3991 | -0 | 0 | 0 | -323 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.06 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |
| 1J | 37 | -0 | -2753 | -0 | 0 | 0 | -280 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.04 | 0.28 | 0.00 | 0.00 | 21.6 |
| 2 | 37 | -0 | -4759 | -0 | 0 | 0 | -473 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.08 | 0.07 | 0.49 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | -3559 | -0 | 0 | 0 | -744 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.05 | 0.37 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | -3185 | -0 | 0 | 0 | -744 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.05 | 0.33 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | -3991 | -0 | 0 | 0 | -812 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | -2753 | -0 | 0 | 0 | -812 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.04 | 0.28 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | -4759 | -0 | 0 | 0 | -1055 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.07 | 0.49 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | 889 | 0 | 0 | 0 | -570 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.10 | 0.01 | 0.09 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | 935 | 0 | 0 | 0 | -635 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.01 | 0.10 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | 835 | 0 | 0 | 0 | -496 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.01 | 0.09 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | 988 | 0 | 0 | 0 | -710 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.01 | 0.10 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | 1491 | 0 | 0 | 0 | -873 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -0 | 5269 | 0 | 0 | 0 | -456 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.08 | 0.08 | 0.55 | 0.00 | 0.00 | 21.6 |
| 1B | 73 | -0 | 5541 | 0 | 0 | 0 | -526 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.08 | 0.57 | 0.00 | 0.00 | 21.6 |
| 1I | 73 | -0 | 4956 | 0 | 0 | 0 | -375 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.07 | 0.07 | 0.51 | 0.00 | 0.00 | 21.6 |
| 1J | 73 | -0 | 5854 | 0 | 0 | 0 | -607 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.09 | 0.61 | 0.00 | 0.00 | 21.6 |
| 2 | 73 | -0 | 8106 | 0 | 0 | 0 | -691 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.12 | 0.12 | 0.84 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 5269 | 0 | 0 | -0 | 189 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.08 | 0.55 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 5541 | 0 | 0 | -0 | 152 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.08 | 0.57 | 0.00 | 0.00 | 21.6 |
| 1I | 86 | -0 | 4956 | 0 | 0 | -0 | 231 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.04 | 0.07 | 0.51 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 5854 | 0 | 0 | -0 | 109 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.09 | 0.61 | 0.00 | 0.00 | 21.6 |
| 2 | 86 | -0 | 8106 | 0 | 0 | -0 | 301 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.12 | 0.84 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 9830 | 0 | 0 | -0 | 834 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.14 | 1.02 | 10.16 | 0.00 | 9.9 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 98 | -0 | 10410 | 0 | 0 | -0 | 830 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.15 | 1.08 | 10.76 | 0.00 | 9.3 |
| 1I | 98 | -0 | 9161 | 0 | 0 | -0 | 838 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.13 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 11079 | 0 | 0 | -0 | 825 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.16 | 1.15 | 11.45 | 0.00 | 8.8 |
| 2 | 98 | -0 | 15100 | 0 | 0 | -0 | 1293 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.23 | 0.22 | 1.56 | 15.60 | 0.00 | 6.4 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 6.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 9830 | 0 | 0 | -0 | 2036 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.14 | 1.02 | 10.16 | 0.00 | 9.9 |
| 1B | 110 | -0 | 10410 | 0 | 0 | -0 | 2103 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.37 | 0.15 | 1.08 | 10.76 | 0.00 | 9.3 |
| 1I | 110 | -0 | 9161 | 0 | 0 | -0 | 1959 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.13 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1J | 110 | -0 | 11079 | 0 | 0 | -0 | 2181 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.39 | 0.16 | 1.15 | 11.45 | 0.00 | 8.8 |
| 2 | 110 | -0 | 15100 | 0 | 0 | -0 | 3140 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.56 | 0.22 | 1.56 | 15.60 | 0.00 | 6.4 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 6.4  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | 9830 | 0 | 0 | -0 | 3239 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.58 | 0.14 | 1.02 | 10.16 | 0.00 | 9.9 |
| 1B | 122 | -0 | 10410 | 0 | 0 | -0 | 3377 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.60 | 0.15 | 1.08 | 10.76 | 0.00 | 9.3 |
| 1I | 122 | -0 | 9161 | 0 | 0 | -0 | 3079 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.55 | 0.13 | 0.95 | 0.00 | 0.00 | 21.6 |
| 1J | 122 | -0 | 11079 | 0 | 0 | -0 | 3536 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.63 | 0.16 | 1.15 | 11.45 | 0.00 | 8.8 |
| 2 | 122 | -0 | 15100 | 0 | 0 | -0 | 4988 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.89 | 0.22 | 1.56 | 15.60 | 0.00 | 6.4 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 6.4  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 15**  NI 2038  NF 17701  SEZ.  Rp  B= 80.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -13482 | -0 | 0 | -0 | 3377 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.60 | 0.20 | 1.39 | 13.93 | 0.00 | 7.2 |
| 1B | 0 | -0 | -12778 | -0 | 0 | -0 | 3239 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.58 | 0.19 | 1.32 | 13.20 | 0.00 | 7.6 |
| 1I | 0 | -0 | -14297 | -0 | 0 | -0 | 3536 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.63 | 0.21 | 1.48 | 14.77 | 0.00 | 6.8 |
| 1J | 0 | -0 | -11963 | -0 | 0 | -0 | 3080 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.55 | 0.17 | 1.24 | 12.36 | 0.00 | 8.1 |
| 2 | 0 | -0 | -19850 | -0 | 0 | -0 | 4988 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.89 | 0.29 | 2.05 | 20.51 | 0.00 | 4.9 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 4.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 12 | -0 | -13482 | -0 | 0 | -0 | 1728 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.20 | 1.39 | 13.93 | 0.00 | 7.2 |
| 1B | 12 | -0 | -12778 | -0 | 0 | -0 | 1676 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.30 | 0.19 | 1.32 | 13.20 | 0.00 | 7.6 |
| 1I | 12 | -0 | -14297 | -0 | 0 | -0 | 1788 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.32 | 0.21 | 1.48 | 14.77 | 0.00 | 6.8 |
| 1J | 12 | -0 | -11963 | -0 | 0 | -0 | 1616 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.29 | 0.17 | 1.24 | 12.36 | 0.00 | 8.1 |
| 2 | 12 | -0 | -19850 | -0 | 0 | -0 | 2560 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.46 | 0.29 | 2.05 | 20.51 | 0.00 | 4.9 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 4.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 24 | -0 | -13482 | -0 | 0 | -0 | 113 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.20 | 1.39 | 13.93 | 0.00 | 7.2 |
| 1B | 24 | -0 | -12778 | -0 | 0 | -0 | 113 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.19 | 1.32 | 13.20 | 0.00 | 7.6 |
| 1I | 24 | -0 | -14297 | -0 | 0 | -0 | 152 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.21 | 1.48 | 14.77 | 0.00 | 6.8 |
| 1J | 24 | -0 | -11963 | -0 | 0 | -0 | 152 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.17 | 1.24 | 12.36 | 0.00 | 8.1 |
| 2 | 24 | -0 | -19850 | -0 | 0 | -0 | 132 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.29 | 2.05 | 20.51 | 0.00 | 4.9 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 4.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -0 | -8266 | -0 | 0 | 0 | -847 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.12 | 0.86 | 0.00 | 0.00 | 21.6 |
| 1B | 37 | -0 | -7850 | -0 | 0 | 0 | -933 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1I | 37 | -0 | -8748 | -0 | 0 | 0 | -749 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.13 | 0.90 | 0.00 | 0.00 | 21.6 |
| 1J | 37 | -0 | -7368 | -0 | 0 | 0 | -1031 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.18 | 0.11 | 0.76 | 0.00 | 0.00 | 21.6 |
| 2 | 37 | -0 | -12220 | -0 | 0 | 0 | -1363 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.24 | 0.18 | 1.26 | 12.63 | 0.00 | 8.0 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 8.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | -8266 | -0 | 0 | 0 | -1808 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.32 | 0.12 | 0.86 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | -7850 | -0 | 0 | 0 | -1944 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | -8748 | -0 | 0 | 0 | -1650 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.29 | 0.13 | 0.90 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | -7368 | -0 | 0 | 0 | -2102 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.37 | 0.11 | 0.76 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | -12220 | -0 | 0 | 0 | -2858 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.51 | 0.18 | 1.26 | 12.63 | 0.00 | 8.0 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 8.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | -2904 | -0 | 0 | 0 | -2146 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.38 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | -2764 | -0 | 0 | 0 | -2300 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.41 | 0.04 | 0.29 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | -3066 | -0 | 0 | 0 | -1969 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.04 | 0.32 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | -2602 | -0 | 0 | 0 | -2477 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.44 | 0.04 | 0.27 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | -4314 | -0 | 0 | 0 | -3386 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.60 | 0.06 | 0.45 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -0 | -2904 | -0 | 0 | 0 | -2485 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.44 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 1B | 73 | -0 | -2764 | -0 | 0 | 0 | -2655 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.47 | 0.04 | 0.29 | 0.00 | 0.00 | 21.6 |
| 1I | 73 | -0 | -3066 | 0 | 0 | 0 | -2287 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.41 | 0.04 | 0.32 | 0.00 | 0.00 | 21.6 |
| 1J | 73 | -0 | 2783 | 0 | 0 | 0 | -2853 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.51 | 0.04 | 0.29 | 0.00 | 0.00 | 21.6 |
| 2 | 73 | -0 | -4314 | -0 | 0 | 0 | -3914 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.70 | 0.06 | 0.45 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 2508 | 0 | 0 | 0 | -2178 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.39 | 0.04 | 0.26 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 2636 | 0 | 0 | 0 | -2333 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.42 | 0.04 | 0.27 | 0.00 | 0.00 | 21.6 |
| 1I | 86 | -0 | 2361 | 0 | 0 | 0 | -1999 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.03 | 0.24 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 2783 | 0 | 0 | 0 | -2512 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.45 | 0.04 | 0.29 | 0.00 | 0.00 | 21.6 |
| 2 | 86 | -0 | 3914 | 0 | 0 | 0 | -3435 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.61 | 0.06 | 0.40 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 8004 | 0 | 0 | 0 | -1871 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.33 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 98 | -0 | 8392 | 0 | 0 | 0 | -2011 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1I | 98 | -0 | 7555 | 0 | 0 | 0 | -1710 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.30 | 0.11 | 0.78 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 8841 | 0 | 0 | 0 | -2172 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.39 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 2 | 98 | -0 | 12520 | 0 | 0 | 0 | -2957 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.53 | 0.18 | 1.30 | 12.94 | 0.00 | 7.8 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 7.8  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 8004 | 0 | 0 | 0 | -892 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |
| 1B | 110 | -0 | 8392 | 0 | 0 | 0 | -984 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.18 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1I | 110 | -0 | 7555 | 0 | 0 | 0 | -786 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.11 | 0.78 | 0.00 | 0.00 | 21.6 |
| 1J | 110 | -0 | 8841 | 0 | 0 | 0 | -1090 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 2 | 110 | -0 | 12520 | 0 | 0 | 0 | -1425 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.18 | 1.30 | 12.94 | 0.00 | 7.8 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 7.8  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | 8004 | 0 | 0 | 0 | 87 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.12 | 0.83 | 0.00 | 0.00 | 21.6 |
| 1B | 122 | -0 | 8392 | 0 | 0 | 0 | 43 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.01 | 0.12 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1I | 122 | -0 | 7555 | 0 | 0 | 0 | 139 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.11 | 0.78 | 0.00 | 0.00 | 21.6 |
| 1J | 122 | -0 | 8841 | 0 | 0 | 0 | -9 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.00 | 0.13 | 0.91 | 0.00 | 0.00 | 21.6 |
| 2 | 122 | -0 | 12520 | 0 | 0 | 0 | 107 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.18 | 1.30 | 12.94 | 0.00 | 7.8 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 7.8  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 16**  NI 17699  NF 2218  SEZ.  Rp  B= 80.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -4268 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1B | 0 | -0 | -3686 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1I | 0 | -0 | -4940 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.07 | 0.51 | 0.00 | 0.00 | 21.6 |
| 1J | 0 | -0 | -3014 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.04 | 0.31 | 0.00 | 0.00 | 21.6 |
| 2 | 0 | -0 | -5144 | -0 | 0 | 0 | 0 | 1.57 | 1.57 | 5.50 | 5.50 | 0.00 | 0.00 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 12 | -0 | -4268 | -0 | 0 | 0 | -451 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.08 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1B | 12 | -0 | -3686 | -0 | 0 | 0 | -522 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1I | 12 | -0 | -4940 | -0 | 0 | 0 | -369 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.07 | 0.07 | 0.51 | 0.00 | 0.00 | 21.6 |
| 1J | 12 | -0 | -3014 | -0 | 0 | 0 | -604 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.04 | 0.31 | 0.00 | 0.00 | 21.6 |
| 2 | 12 | -0 | -5144 | -0 | 0 | 0 | -629 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 24 | -0 | -4268 | -0 | 0 | 0 | -902 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1B | 24 | -0 | -3686 | -0 | 0 | 0 | -1044 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1I | 24 | -0 | -4940 | -0 | 0 | 0 | -738 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.07 | 0.51 | 0.00 | 0.00 | 21.6 |
| 1J | 24 | -0 | -3014 | -0 | 0 | 0 | -1209 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.04 | 0.31 | 0.00 | 0.00 | 21.6 |
| 2 | 24 | -0 | -5144 | -0 | 0 | 0 | -1259 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -0 | -1621 | -0 | 0 | 0 | -1077 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.02 | 0.17 | 0.00 | 0.00 | 21.6 |
| 1B | 37 | -0 | -1425 | -0 | 0 | 0 | -1243 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 1I | 37 | -0 | -1846 | -0 | 0 | 0 | -885 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.03 | 0.19 | 0.00 | 0.00 | 21.6 |
| 1J | 37 | -0 | -1200 | -0 | 0 | 0 | -1435 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.26 | 0.02 | 0.12 | 0.00 | 0.00 | 21.6 |
| 2 | 37 | -0 | -2021 | -0 | 0 | 0 | -1506 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.27 | 0.03 | 0.21 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | -1621 | -0 | 0 | 0 | -1251 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.02 | 0.17 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | -1425 | -0 | 0 | 0 | -1441 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.26 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | -1846 | 0 | 0 | 0 | -1031 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.18 | 0.03 | 0.19 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | 1406 | 0 | 0 | 0 | -1661 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.30 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | -2021 | -0 | 0 | 0 | -1753 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.03 | 0.21 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | 1021 | 0 | 0 | 0 | -1126 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.20 | 0.01 | 0.11 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | 1199 | 0 | 0 | 0 | -1294 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.23 | 0.02 | 0.12 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | 814 | 0 | 0 | 0 | -932 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.01 | 0.08 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | 1406 | 0 | 0 | 0 | -1489 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.26 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | 1425 | 0 | 0 | 0 | -1579 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -0 | 3673 | 0 | 0 | 0 | -1001 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.18 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1B | 73 | -0 | 4215 | 0 | 0 | 0 | -1147 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.20 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1I | 73 | -0 | 3045 | 0 | 0 | 0 | -832 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.04 | 0.32 | 0.00 | 0.00 | 21.6 |
| 1J | 73 | -0 | 4843 | 0 | 0 | 0 | -1317 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.23 | 0.07 | 0.50 | 0.00 | 0.00 | 21.6 |
| 2 | 73 | -0 | 5219 | 0 | 0 | 0 | -1404 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.08 | 0.54 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 3673 | 0 | 0 | 0 | -552 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.10 | 0.05 | 0.38 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 4215 | 0 | 0 | 0 | -631 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1I | 86 | -0 | 3045 | 0 | 0 | 0 | -459 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.08 | 0.04 | 0.32 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 4843 | 0 | 0 | 0 | -724 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.07 | 0.50 | 0.00 | 0.00 | 21.6 |
| 2 | 86 | -0 | 5219 | 0 | 0 | 0 | -766 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.08 | 0.54 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 6545 | 0 | 0 | -0 | -103 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 98 | -0 | 7445 | 0 | 0 | -0 | -116 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1I | 98 | -0 | 5506 | 0 | 0 | 0 | -87 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.08 | 0.57 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 8484 | 0 | 0 | 0 | -132 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.12 | 0.88 | 0.00 | 0.00 | 21.6 |
| 2 | 98 | -0 | 9385 | 0 | 0 | -0 | -127 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.14 | 0.97 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 6545 | 0 | 0 | -0 | 698 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.12 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1B | 110 | -0 | 7445 | 0 | 0 | -0 | 795 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1I | 110 | -0 | 5506 | 0 | 0 | -0 | 587 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.10 | 0.08 | 0.57 | 0.00 | 0.00 | 21.6 |
| 1J | 110 | -0 | 8484 | 0 | 0 | -0 | 906 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.12 | 0.88 | 0.00 | 0.00 | 21.6 |
| 2 | 110 | -0 | 9385 | 0 | 0 | -0 | 1021 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.18 | 0.14 | 0.97 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | 6545 | 0 | 0 | -0 | 1499 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.27 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1B | 122 | -0 | 7445 | 0 | 0 | -0 | 1705 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.30 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1I | 122 | -0 | 5506 | 0 | 0 | -0 | 1260 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.08 | 0.57 | 0.00 | 0.00 | 21.6 |
| 1J | 122 | -0 | 8484 | 0 | 0 | -0 | 1944 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.12 | 0.88 | 0.00 | 0.00 | 21.6 |
| 2 | 122 | -0 | 9385 | 0 | 0 | -0 | 2169 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.39 | 0.14 | 0.97 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 17**  NI 2218  NF 2074  SEZ.  Rp  B= 80.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -6585 | -0 | 0 | -0 | 1705 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.30 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1B | 0 | -0 | -5873 | -0 | 0 | -0 | 1499 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.27 | 0.09 | 0.61 | 0.00 | 0.00 | 21.6 |
| 1I | 0 | -0 | -7407 | -0 | 0 | -0 | 1944 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1J | 0 | -0 | -5051 | -0 | 0 | -0 | 1260 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.22 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |
| 2 | 0 | -0 | -8639 | -0 | 0 | -0 | 2168 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.39 | 0.13 | 0.89 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 12 | -0 | -6585 | -0 | 0 | -0 | 900 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1B | 12 | -0 | -5873 | -0 | 0 | -0 | 780 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.09 | 0.61 | 0.00 | 0.00 | 21.6 |
| 1I | 12 | -0 | -7407 | -0 | 0 | -0 | 1038 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.18 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1J | 12 | -0 | -5051 | -0 | 0 | -0 | 642 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |
| 2 | 12 | -0 | -8639 | -0 | 0 | -0 | 1111 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.20 | 0.13 | 0.89 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 24 | -0 | -6585 | -0 | 0 | -0 | 94 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.10 | 0.68 | 0.00 | 0.00 | 21.6 |
| 1B | 24 | -0 | -5873 | -0 | 0 | -0 | 62 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.01 | 0.09 | 0.61 | 0.00 | 0.00 | 21.6 |
| 1I | 24 | -0 | -7407 | -0 | 0 | -0 | 131 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1J | 24 | -0 | -5051 | -0 | 0 | -0 | 24 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.00 | 0.07 | 0.52 | 0.00 | 0.00 | 21.6 |
| 2 | 24 | -0 | -8639 | -0 | 0 | -0 | 54 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.01 | 0.13 | 0.89 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -0 | -2954 | -0 | 0 | 0 | -268 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.04 | 0.31 | 0.00 | 0.00 | 21.6 |
| 1B | 37 | -0 | -2580 | -0 | 0 | 0 | -255 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.04 | 0.27 | 0.00 | 0.00 | 21.6 |
| 1I | 37 | -0 | -3385 | -0 | 0 | 0 | -283 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.05 | 0.35 | 0.00 | 0.00 | 21.6 |
| 1J | 37 | -0 | -2149 | -0 | 0 | 0 | -239 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.04 | 0.03 | 0.22 | 0.00 | 0.00 | 21.6 |
| 2 | 37 | -0 | -3763 | -0 | 0 | 0 | -406 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.07 | 0.05 | 0.39 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | -2954 | -0 | 0 | 0 | -629 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.04 | 0.31 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | -2580 | -0 | 0 | 0 | -629 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.04 | 0.27 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | -3385 | -0 | 0 | 0 | -697 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.12 | 0.05 | 0.35 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | -2149 | -0 | 0 | 0 | -697 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.12 | 0.03 | 0.22 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | -3763 | -0 | 0 | 0 | -867 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.05 | 0.39 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | 864 | 0 | 0 | 0 | -459 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.08 | 0.01 | 0.09 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | 909 | 0 | 0 | 0 | -524 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.01 | 0.09 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | 811 | 0 | 0 | 0 | -385 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.07 | 0.01 | 0.08 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | 962 | 0 | 0 | 0 | -598 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.01 | 0.10 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | 1449 | 0 | 0 | 0 | -689 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.12 | 0.02 | 0.15 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -0 | 4606 | 0 | 0 | 0 | -348 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.06 | 0.07 | 0.48 | 0.00 | 0.00 | 21.6 |
| 1B | 73 | -0 | 4878 | 0 | 0 | 0 | -418 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.07 | 0.07 | 0.50 | 0.00 | 0.00 | 21.6 |
| 1I | 73 | -0 | 4292 | 0 | 0 | 0 | -267 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1J | 73 | -0 | 5192 | 0 | 0 | 0 | -499 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.08 | 0.54 | 0.00 | 0.00 | 21.6 |
| 2 | 73 | -0 | 7013 | 0 | 0 | 0 | -512 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.09 | 0.10 | 0.73 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 4606 | 0 | 0 | -0 | 216 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.04 | 0.07 | 0.48 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 4878 | 0 | 0 | -0 | 179 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.07 | 0.50 | 0.00 | 0.00 | 21.6 |
| 1I | 86 | -0 | 4292 | 0 | 0 | -0 | 258 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.05 | 0.06 | 0.44 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 5192 | 0 | 0 | -0 | 136 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.08 | 0.54 | 0.00 | 0.00 | 21.6 |
| 2 | 86 | -0 | 7013 | 0 | 0 | -0 | 346 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.06 | 0.10 | 0.73 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 8516 | 0 | 0 | -0 | 779 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.12 | 0.88 | 0.00 | 0.00 | 21.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 98 | -0 | 9096 | 0 | 0 | -0 | 776 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.13 | 0.94 | 0.00 | 0.00 | 21.6 |
| 1I | 98 | -0 | 7846 | 0 | 0 | -0 | 783 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 9766 | 0 | 0 | -0 | 771 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.14 | 1.01 | 10.09 | 0.00 | 10.0 |
| 2 | 98 | -0 | 12940 | 0 | 0 | -0 | 1204 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.21 | 0.19 | 1.34 | 13.37 | 0.00 | 7.5 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 7.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 8516 | 0 | 0 | -0 | 1821 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.32 | 0.12 | 0.88 | 0.00 | 0.00 | 21.6 |
| 1B | 110 | -0 | 9096 | 0 | 0 | -0 | 1888 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.34 | 0.13 | 0.94 | 0.00 | 0.00 | 21.6 |
| 1I | 110 | -0 | 7846 | 0 | 0 | -0 | 1743 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1J | 110 | -0 | 9766 | 0 | 0 | -0 | 1966 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.14 | 1.01 | 10.09 | 0.00 | 10.0 |
| 2 | 110 | -0 | 12940 | 0 | 0 | -0 | 2787 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.50 | 0.19 | 1.34 | 13.37 | 0.00 | 7.5 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 7.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | 8516 | 0 | 0 | -0 | 2863 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.51 | 0.12 | 0.88 | 0.00 | 0.00 | 21.6 |
| 1B | 122 | -0 | 9096 | 0 | 0 | -0 | 3001 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.53 | 0.13 | 0.94 | 0.00 | 0.00 | 21.6 |
| 1I | 122 | -0 | 7846 | 0 | 0 | -0 | 2703 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.48 | 0.11 | 0.81 | 0.00 | 0.00 | 21.6 |
| 1J | 122 | -0 | 9766 | 0 | 0 | -0 | 3161 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.56 | 0.14 | 1.01 | 10.09 | 0.00 | 10.0 |
| 2 | 122 | -0 | 12940 | 0 | 0 | -0 | 4370 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.78 | 0.19 | 1.34 | 13.37 | 0.00 | 7.5 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 7.5  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 18**  NI 2074  NF 17698  SEZ.  Rp  B= 80.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | -11953 | -0 | 0 | -0 | 3001 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.53 | 0.17 | 1.24 | 12.35 | 0.00 | 8.1 |
| 1B | 0 | -0 | -11247 | -0 | 0 | -0 | 2863 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.51 | 0.16 | 1.16 | 11.62 | 0.00 | 8.7 |
| 1I | 0 | -0 | -12769 | -0 | 0 | -0 | 3161 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.56 | 0.19 | 1.32 | 13.19 | 0.00 | 7.6 |
| 1J | 0 | -0 | -10431 | -0 | 0 | -0 | 2703 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.48 | 0.15 | 1.08 | 10.78 | 0.00 | 9.3 |
| 2 | 0 | -0 | -17330 | -0 | 0 | -0 | 4370 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.78 | 0.25 | 1.79 | 17.91 | 0.00 | 5.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 5.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 12 | -0 | -11953 | -0 | 0 | -0 | 1539 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.27 | 0.17 | 1.24 | 12.35 | 0.00 | 8.1 |
| 1B | 12 | -0 | -11247 | -0 | 0 | -0 | 1487 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.26 | 0.16 | 1.16 | 11.62 | 0.00 | 8.7 |
| 1I | 12 | -0 | -12769 | -0 | 0 | -0 | 1599 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.19 | 1.32 | 13.19 | 0.00 | 7.6 |
| 1J | 12 | -0 | -10431 | -0 | 0 | -0 | 1427 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.15 | 1.08 | 10.78 | 0.00 | 9.3 |
| 2 | 12 | -0 | -17330 | -0 | 0 | -0 | 2250 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.40 | 0.25 | 1.79 | 17.91 | 0.00 | 5.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 5.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 24 | -0 | -11953 | -0 | 0 | -0 | 112 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.17 | 1.24 | 12.35 | 0.00 | 8.1 |
| 1B | 24 | -0 | -11247 | -0 | 0 | -0 | 111 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.16 | 1.16 | 11.62 | 0.00 | 8.7 |
| 1I | 24 | -0 | -12769 | -0 | 0 | -0 | 152 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.19 | 1.32 | 13.19 | 0.00 | 7.6 |
| 1J | 24 | -0 | -10431 | -0 | 0 | -0 | 151 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.03 | 0.15 | 1.08 | 10.78 | 0.00 | 9.3 |
| 2 | 24 | -0 | -17330 | -0 | 0 | -0 | 131 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.25 | 1.79 | 17.91 | 0.00 | 5.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 5.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 37 | -0 | -7396 | -0 | 0 | 0 | -741 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.13 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1B | 37 | -0 | -6978 | -0 | 0 | 0 | -827 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.15 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1I | 37 | -0 | -7879 | -0 | 0 | 0 | -643 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.11 | 0.11 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1J | 37 | -0 | -6495 | -0 | 0 | 0 | -926 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.09 | 0.67 | 0.00 | 0.00 | 21.6 |
| 2 | 37 | -0 | -10790 | -0 | 0 | 0 | -1189 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.21 | 0.16 | 1.12 | 11.15 | 0.00 | 9.0 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 49 | -0 | -7396 | -0 | 0 | 0 | -1596 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.11 | 0.77 | 0.00 | 0.00 | 21.6 |
| 1B | 49 | -0 | -6978 | -0 | 0 | 0 | -1732 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.10 | 0.72 | 0.00 | 0.00 | 21.6 |
| 1I | 49 | -0 | -7879 | -0 | 0 | 0 | -1438 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.26 | 0.11 | 0.82 | 0.00 | 0.00 | 21.6 |
| 1J | 49 | -0 | -6495 | -0 | 0 | 0 | -1890 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.34 | 0.09 | 0.67 | 0.00 | 0.00 | 21.6 |
| 2 | 49 | -0 | -10790 | -0 | 0 | 0 | -2509 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.45 | 0.16 | 1.12 | 11.15 | 0.00 | 9.0 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.0  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 61 | -0 | -2697 | -0 | 0 | 0 | -1908 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.34 | 0.04 | 0.28 | 0.00 | 0.00 | 21.6 |
| 1B | 61 | -0 | -2557 | -0 | 0 | 0 | -2062 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.37 | 0.04 | 0.26 | 0.00 | 0.00 | 21.6 |
| 1I | 61 | -0 | -2860 | -0 | 0 | 0 | -1731 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 1J | 61 | -0 | -2394 | -0 | 0 | 0 | -2240 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.40 | 0.03 | 0.25 | 0.00 | 0.00 | 21.6 |
| 2 | 61 | -0 | -3974 | -0 | 0 | 0 | -2994 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.53 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 73 | -0 | -2697 | -0 | 0 | 0 | -2221 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.40 | 0.04 | 0.28 | 0.00 | 0.00 | 21.6 |
| 1B | 73 | -0 | -2557 | -0 | 0 | 0 | -2393 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.43 | 0.04 | 0.26 | 0.00 | 0.00 | 21.6 |
| 1I | 73 | -0 | -2860 | -0 | 0 | 0 | -2024 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.04 | 0.30 | 0.00 | 0.00 | 21.6 |
| 1J | 73 | -0 | -2394 | -0 | 0 | 0 | -2590 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.46 | 0.03 | 0.25 | 0.00 | 0.00 | 21.6 |
| 2 | 73 | -0 | -3974 | -0 | 0 | 0 | -3481 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.62 | 0.06 | 0.41 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 86 | -0 | 2043 | 0 | 0 | 0 | -1971 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.35 | 0.03 | 0.21 | 0.00 | 0.00 | 21.6 |
| 1B | 86 | -0 | 2171 | 0 | 0 | 0 | -2127 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.38 | 0.03 | 0.22 | 0.00 | 0.00 | 21.6 |
| 1I | 86 | -0 | 1896 | 0 | 0 | 0 | -1792 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.32 | 0.03 | 0.20 | 0.00 | 0.00 | 21.6 |
| 1J | 86 | -0 | 2318 | 0 | 0 | 0 | -2307 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.41 | 0.03 | 0.24 | 0.00 | 0.00 | 21.6 |
| 2 | 86 | -0 | 3149 | 0 | 0 | 0 | -3096 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.55 | 0.05 | 0.33 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 98 | -0 | 6857 | 0 | 0 | 0 | -1721 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.31 | 0.10 | 0.71 | 0.00 | 0.00 | 21.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 98 | -0 | 7247 | 0 | 0 | 0 | -1861 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.33 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1I | 98 | -0 | 6406 | 0 | 0 | 0 | -1560 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.28 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 98 | -0 | 7698 | 0 | 0 | 0 | -2023 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.36 | 0.11 | 0.80 | 0.00 | 0.00 | 21.6 |
| 2 | 98 | -0 | 10640 | 0 | 0 | 0 | -2711 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.48 | 0.16 | 1.10 | 10.99 | 0.00 | 9.1 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.1  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | 6857 | 0 | 0 | 0 | -882 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.16 | 0.10 | 0.71 | 0.00 | 0.00 | 21.6 |
| 1B | 110 | -0 | 7247 | 0 | 0 | 0 | -974 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.17 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1I | 110 | -0 | 6406 | 0 | 0 | 0 | -776 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.14 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 110 | -0 | 7698 | 0 | 0 | 0 | -1081 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.19 | 0.11 | 0.80 | 0.00 | 0.00 | 21.6 |
| 2 | 110 | -0 | 10640 | 0 | 0 | 0 | -1409 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.25 | 0.16 | 1.10 | 10.99 | 0.00 | 9.1 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.1  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 122 | -0 | 6857 | 0 | 0 | 0 | -43 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.01 | 0.10 | 0.71 | 0.00 | 0.00 | 21.6 |
| 1B | 122 | -0 | 7247 | 0 | 0 | 0 | -88 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1I | 122 | -0 | 6406 | 0 | 0 | 0 | 8 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.00 | 0.09 | 0.66 | 0.00 | 0.00 | 21.6 |
| 1J | 122 | -0 | 7698 | 0 | 0 | 0 | -139 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.11 | 0.80 | 0.00 | 0.00 | 21.6 |
| 2 | 122 | -0 | 10640 | 0 | 0 | 0 | -108 | 1.57 | 1.57 | 5.50 | 5.50 | 0.12 | 0.02 | 0.16 | 1.10 | 10.99 | 0.00 | 9.1 |

apost= --  aant= --  ainf= 3.93 asup= 3.93 staffe= 2 d  8 / 9.1  ( e armatura base = 4 X 0.79 )

**ASTA NUM. 19**  NI 17701  NF 17698  SEZ.  Rp  B= 60.0  H= 30.0  (trave di fondazione)

armatura base = 4 X 0.79  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 1A | 0 | -0 | -15562 | 0 | 0 | 0 | 4782 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 1.00 | 0.30 | 2.15 | 16.08 | 0.00 | 6.3 |
| 1B | 0 | -0 | -13978 | 0 | 0 | 0 | 2472 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.61 | 0.27 | 1.93 | 14.44 | 0.00 | 7.0 |
| 1I | 0 | -0 | -17393 | 0 | 0 | 0 | 7452 | 1.57 | 1.57 | 7.85 | 3.93 | 0.17 | 0.95 | 0.34 | 2.07 | 17.97 | 0.00 | 5.6 |
| 1J | 0 | -0 | -12147 | 0 | 0 | 0 | -198 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.24 | 1.68 | 12.55 | 0.00 | 8.0 |
| 2 | 0 | -0 | -22620 | 0 | 0 | 0 | 5538 | 1.57 | 1.57 | 5.50 | 3.93 | 0.14 | 1.00 | 0.44 | 3.03 | 23.37 | 0.00 | 4.3 |

apost= --  aant= --  ainf= 6.28 asup= 2.36 staffe= 2 d  8 / 4.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 28 | -0 | -15562 | 0 | 0 | 0 | 425 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.11 | 0.30 | 2.15 | 16.08 | 0.00 | 6.3 |
| 1B | 28 | -0 | -13978 | 0 | 0 | 0 | -1442 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.36 | 0.27 | 1.93 | 14.44 | 0.00 | 7.0 |
| 1I | 28 | -0 | -17393 | 0 | 0 | 0 | 2582 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.64 | 0.34 | 2.40 | 17.97 | 0.00 | 5.6 |
| 1J | 28 | -0 | -12147 | 0 | 0 | 0 | -3599 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.89 | 0.24 | 1.68 | 12.55 | 0.00 | 8.0 |
| 2 | 28 | -0 | -22620 | 0 | 0 | -0 | -796 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.20 | 0.44 | 3.12 | 23.37 | 0.00 | 4.3 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 4.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 56 | -0 | -15562 | 0 | 0 | -0 | -3932 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.98 | 0.30 | 2.15 | 16.08 | 0.00 | 6.3 |
| 1B | 56 | -0 | -13978 | 0 | 0 | -0 | -5356 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.96 | 0.27 | 1.87 | 14.44 | 0.00 | 7.0 |
| 1I | 56 | -0 | -17393 | 0 | 0 | -0 | -2287 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.57 | 0.34 | 2.40 | 17.97 | 0.00 | 5.6 |
| 1J | 56 | -0 | -12147 | 0 | 0 | -0 | -7000 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.99 | 0.24 | 1.50 | 12.55 | 0.00 | 8.0 |
| 2 | 56 | -0 | -22620 | 0 | 0 | -0 | -7129 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.91 | 0.44 | 2.69 | 23.37 | 0.00 | 4.3 |

apost= --  aant= --  ainf= 2.36 asup= 6.28 staffe= 2 d  8 / 4.3  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 84 | -0 | -7272 | 0 | 0 | -0 | -5966 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.94 | 0.14 | 0.93 | 0.00 | 0.00 | 21.6 |
| 1B | 84 | -0 | -5578 | 0 | 0 | -0 | -6916 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.98 | 0.11 | 0.69 | 0.00 | 0.00 | 21.6 |
| 1I | 84 | -0 | -9228 | 0 | 0 | -0 | -4869 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.88 | 0.18 | 1.24 | 9.54 | 0.00 | 10.5 |
| 1J | 84 | -0 | -3622 | 0 | 0 | -0 | -8013 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.93 | 0.07 | 0.42 | 0.00 | 0.00 | 21.6 |
| 2 | 84 | -0 | -9815 | 0 | 0 | -0 | -9878 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.98 | 0.19 | 1.07 | 10.14 | 0.00 | 9.9 |

apost= --  aant= --  ainf= 2.36 asup= 8.64 staffe= 2 d  8 / 9.9  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 112 | -0 | -7272 | 0 | 0 | -0 | -8002 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.93 | 0.14 | 0.84 | 0.00 | 0.00 | 21.6 |
| 1B | 112 | -0 | -5578 | 0 | 0 | -0 | -8478 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.99 | 0.11 | 0.64 | 0.00 | 0.00 | 21.6 |
| 1I | 112 | -0 | -9228 | 0 | 0 | -0 | -7454 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 0.95 | 0.18 | 1.10 | 9.54 | 0.00 | 10.5 |
| 1J | 112 | -0 | -3622 | 0 | 0 | -0 | -9026 | 1.57 | 1.57 | 3.93 | 9.42 | 0.19 | 0.97 | 0.07 | 0.41 | 0.00 | 0.00 | 21.6 |
| 2 | 112 | -0 | -9815 | 0 | 0 | -0 | -12630 | 1.57 | 1.57 | 3.93 | 13.35 | 0.23 | 0.97 | 0.19 | 0.98 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 11.78 staffe= 2 d  8 / 10.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 140 | -0 | -612 | 0 | 0 | -0 | -8174 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.95 | 0.01 | 0.07 | 0.00 | 0.00 | 21.6 |
| 1B | 140 | -0 | 1089 | 0 | 0 | -0 | -8173 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.95 | 0.02 | 0.13 | 0.00 | 0.00 | 21.6 |
| 1I | 140 | -0 | -2576 | 0 | 0 | -0 | -8175 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.95 | 0.05 | 0.30 | 0.00 | 0.00 | 21.6 |
| 1J | 140 | -0 | 3054 | 0 | 0 | -0 | -8172 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.95 | 0.06 | 0.35 | 0.00 | 0.00 | 21.6 |
| 2 | 140 | -0 | 393 | -0 | 0 | -0 | -12520 | 1.57 | 1.57 | 3.93 | 13.35 | 0.23 | 0.97 | 0.01 | 0.04 | 0.00 | 0.00 | 21.6 |

apost= --  aant= --  ainf= 2.36 asup= 11.78 staffe= 2 d  8 / 21.6  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 168 | -0 | 5819 | -0 | 0 | -0 | -8345 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.97 | 0.11 | 0.67 | 0.00 | 0.00 | 21.6 |
| 1B | 168 | -0 | 7511 | -0 | 0 | -0 | -8346 | 1.57 | 1.57 | 3.93 | 8.64 | 0.18 | 0.97 | 0.15 | 0.87 | 0.00 | 0.00 | 21.6 |
| 1I | 168 | -0 | 3864 | -0 | 0 | -0 | -8896 | 1.57 | 1.57 | 3.93 | 9.42 | 0.19 | 0.95 | 0.08 | 0.43 | 0.00 | 0.00 | 21.6 |
| 1J | 168 | -0 | 9466 | -0 | 0 | -0 | -8897 | 1.57 | 1.57 | 3.93 | 9.42 | 0.19 | 0.95 | 0.18 | 1.06 | 9.78 | 0.00 | 10.3 |
| 2 | 168 | -0 | 10210 | -0 | 0 | -0 | -12410 | 1.57 | 1.57 | 3.93 | 13.35 | 0.23 | 0.96 | 0.20 | 1.02 | 10.55 | 0.00 | 9.5 |

apost= --  aant= --  ainf= 2.36 asup= 11.78 staffe= 2 d  8 / 9.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 196 | -0 | 5819 | -0 | 0 | -0 | -5765 | 1.57 | 1.57 | 3.93 | 6.28 | 0.15 | 0.91 | 0.11 | 0.75 | 0.00 | 0.00 | 21.6 |
| 1B | 196 | -0 | 7511 | -0 | 0 | -0 | -6716 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.95 | 0.15 | 0.93 | 0.00 | 0.00 | 21.6 |
| 1I | 196 | -0 | 3864 | -0 | 0 | -0 | -4667 | 1.57 | 1.57 | 3.93 | 4.71 | 0.13 | 0.97 | 0.08 | 0.53 | 0.00 | 0.00 | 21.6 |
| 1J | 196 | -0 | 9466 | -0 | 0 | -0 | -7814 | 1.57 | 1.57 | 3.93 | 7.85 | 0.17 | 1.00 | 0.18 | 1.13 | 9.78 | 0.00 | 10.3 |
| 2 | 196 | -0 | 10210 | -0 | 0 | -0 | -9551 | 1.57 | 1.57 | 3.93 | 10.21 | 0.19 | 0.95 | 0.20 | 1.11 | 10.55 | 0.00 | 9.5 |

apost= --  aant= --  ainf= 2.36 asup= 8.64 staffe= 2 d  8 / 9.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 224 | -0 | 13480 | -0 | 0 | -0 | -3662 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.91 | 0.26 | 1.86 | 13.93 | 0.00 | 7.2 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 224 | -0 | 15060 | -0 | 0 | -0 | -5087 | 1.57 | 1.57 | 3.93 | 5.50 | 0.14 | 0.91 | 0.29 | 2.02 | 15.56 | 0.00 | 6.5 |
| 1I | 224 | -0 | 11653 | -0 | 0 | -0 | -2017 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.50 | 0.23 | 1.61 | 12.04 | 0.00 | 8.3 |
| 1J | 224 | -0 | 16887 | -0 | 0 | -0 | -6732 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.95 | 0.33 | 2.08 | 17.45 | 0.00 | 5.8 |
| 2 | 224 | -0 | 21800 | -0 | 0 | -0 | -6692 | 1.57 | 1.57 | 3.93 | 7.07 | 0.16 | 0.94 | 0.42 | 2.69 | 22.53 | 0.00 | 4.5 |

apost= --  aant= --  ainf= 2.36 asup= 5.50 staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 252 | -0 | 13480 | -0 | 0 | 0 | 555 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.14 | 0.26 | 1.86 | 13.93 | 0.00 | 7.2 |
| 1B | 252 | -0 | 15060 | -0 | 0 | 0 | -1312 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.33 | 0.29 | 2.08 | 15.56 | 0.00 | 6.5 |
| 1I | 252 | -0 | 11653 | -0 | 0 | 0 | 2712 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.67 | 0.23 | 1.61 | 12.04 | 0.00 | 8.3 |
| 1J | 252 | -0 | 16887 | -0 | 0 | 0 | -3469 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.86 | 0.33 | 2.33 | 17.45 | 0.00 | 5.8 |
| 2 | 252 | -0 | 21800 | -0 | 0 | -0 | -585 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.15 | 0.42 | 3.01 | 22.53 | 0.00 | 4.5 |

apost= --  aant= --  ainf= 2.36 asup= 2.36 staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 0.79 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 280 | -0 | 13480 | -0 | 0 | 0 | 4772 | 1.57 | 1.57 | 4.71 | 3.93 | 0.13 | 1.00 | 0.26 | 1.86 | 13.93 | 0.00 | 7.2 |
| 1B | 280 | -0 | 15060 | -0 | 0 | 0 | 2462 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.61 | 0.29 | 2.08 | 15.56 | 0.00 | 6.5 |
| 1I | 280 | -0 | 11653 | -0 | 0 | 0 | 7441 | 1.57 | 1.57 | 7.85 | 3.93 | 0.17 | 0.95 | 0.23 | 1.39 | 12.04 | 0.00 | 8.3 |
| 1J | 280 | -0 | 16887 | -0 | 0 | 0 | -206 | 1.57 | 1.57 | 3.93 | 3.93 | 0.12 | 0.05 | 0.33 | 2.33 | 17.45 | 0.00 | 5.8 |
| 2 | 280 | -0 | 21800 | -0 | 0 | 0 | 5519 | 1.57 | 1.57 | 5.50 | 3.93 | 0.14 | 0.99 | 0.42 | 2.92 | 22.53 | 0.00 | 4.5 |

apost= --  aant= --  ainf= 6.28 asup= 2.36 staffe= 2 d  8 / 4.5  ( e armatura base = 4 X 0.79 )

L E G E N D A

| Prima asta | Ultima asta | Nome disegno | Descrizione disegno |
|---|---|---|---|
| 1 | 1 | fondaz_307_IP1.ARM | Fondazione_3 |
| 2 | 2 | fondaz_308_IP1.ARM | Fondazione_3 |
| 3 | 7 | fondaz_301_IP1.ARM | Fondazione_3 |
| 8 | 8 | fondaz_306_IP1.ARM | Fondazione_3 |
| 9 | 12 | fondaz_302_IP1.ARM | Fondazione_3 |
| 13 | 15 | fondaz_304_IP1.ARM | Fondazione_3 |
| 16 | 18 | fondaz_303_IP1.ARM | Fondazione_3 |
| 19 | 19 | fondaz_305_IP1.ARM | Fondazione_3 |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE DI FONDAZIONE** Gruppo: **3** Tabella: **Tabella fondazioni**
Descrizione: **Fondazioni setti in ca**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$ Copriferro: **3.0** cm

Asta: **1**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **2**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **3**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **4**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **5**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **6**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **7**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **8**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **9**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **10**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **11**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **12**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **13**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **14**

Avvertenza: profondita' appoggio non determinata

Verifica di punzonamento non eseguibile

Asta: **15**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **16**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **17**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **18**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **19**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

**AMV s.r.l.**
**Via San Lorenzo, 106 Tel. 0481/779903**
**34077 Ronchi dei Legionari (GO)**

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **46** Tabella: **Tabella travi**
Descrizione: **Travi scala pt**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm
Verifica in ottemperanza alle NTC2008
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 7273 NF 7183 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice Fx,M | Indice Bielle | Indice V,Mx | resistenza | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | | | | cmq/m | | | cm |
| 2 | 0 | -1360 | 5826 | 1021 | -160 | 944 | -2934 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.91 | 0.41 | 3.29 | 8.55 | 0.52 | | 4.8 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 10 | -1360 | 5549 | 1021 | -160 | 843 | -2371 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.72 | 0.40 | 3.18 | 8.15 | 0.52 | | 4.8 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 20 | -1360 | 5271 | 1021 | -160 | 742 | -1835 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.81 | 0.38 | 3.08 | 7.74 | 0.52 | | 4.8 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 30 | -1360 | 4994 | 1021 | -160 | 641 | -1327 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.57 | 0.37 | 2.98 | 7.33 | 0.52 | | 4.8 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 40 | -1360 | 4716 | 1021 | -160 | 540 | -846 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.34 | 0.35 | 2.87 | 6.92 | 0.52 | | 12.6 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 12.6 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 50 | -1360 | 4439 | 1021 | -160 | 439 | -393 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.13 | 0.34 | 2.77 | 6.52 | 0.52 | | 13.3 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 13.3 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 59 | -1360 | 4161 | 1021 | -160 | 338 | 33 | 3.08 | 3.08 | 3.08 | 3.08 | 5 | 0.06 | 0.32 | 2.30 | 6.11 | 0.52 | | 14.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 14.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 69 | -1360 | 3884 | 1021 | -160 | 237 | 431 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.15 | 0.30 | 2.22 | 5.70 | 0.52 | | 14.9 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 14.9 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 79 | -1360 | 3606 | 1021 | -160 | 136 | 802 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.32 | 0.29 | 2.14 | 5.29 | 0.52 | | 15.2 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 89 | -1360 | 3328 | 1021 | -160 | 35 | 1145 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.48 | 0.27 | 2.06 | 4.89 | 0.52 | | 15.2 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |
| 2 | 99 | -1360 | 3051 | 1021 | -160 | -67 | 1461 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.63 | 0.26 | 1.98 | 4.48 | 0.52 | | 15.2 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |

**ASTA NUM. 2** NI 7183 NF 6860 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice Fx,M | Indice Bielle | Indice V,Mx | resistenza | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | | | | cmq/m | | | cm |
| 2 | 0 | -1109 | 1214 | -348 | 44 | -307 | 1106 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.48 | 0.09 | 0.66 | 0.00 | 0.00 | | 15.2 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | |

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 2 | 21 | -1109 | 639 | -348 | 44 | -235 | 1296 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.56 | 0.06 | 0.49 | 0.00 | 0.00 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 41 | -1109 | 65 | -348 | 44 | -164 | 1368 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.60 | 0.04 | 0.44 | 0.00 | 0.00 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 62 | -1109 | -510 | -348 | 44 | -92 | 1322 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.58 | 0.05 | 0.45 | 0.00 | 0.00 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 82 | -1109 | -1085 | -348 | 44 | -21 | 1159 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.50 | 0.08 | 0.62 | 0.00 | 0.00 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 103 | -1109 | -1660 | -348 | 44 | 50 | 877 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.37 | 0.12 | 0.79 | 0.00 | 0.00 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 123 | -1109 | -2234 | -348 | 44 | 122 | 478 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.18 | 0.15 | 0.95 | 0.00 | 0.00 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 144 | -1109 | -2809 | -348 | 44 | 193 | -39 | 3.08 | 3.08 | 3.08 | 3.08 | 5 | 0.03 | 0.18 | 1.34 | 4.12 | 0.14 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 164 | -1109 | -3384 | -348 | 44 | 265 | -674 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.27 | 0.21 | 1.56 | 4.97 | 0.14 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 185 | -1109 | -3958 | -348 | 44 | 336 | -1427 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.63 | 0.24 | 1.77 | 5.81 | 0.14 | 4.8 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 205 | -1109 | -4533 | -348 | 44 | 407 | -2297 | 3.08 | 3.08 | 3.08 | 4.62 | 2 | 0.71 | 0.27 | 1.98 | 6.66 | 0.14 | 4.8 |

apost= -- aant= -- ainf= -- asup= 1.54 staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 3** NI 7183 NF 6618 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 7.9170 7.0992 16.6662 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 2 | 0 | 1369 | 1837 | 251 | -355 | 240 | -204 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.15 | 0.31 | 3.09 | 2.70 | 1.16 | 4.8 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 19 | 1369 | 1398 | 251 | -355 | 192 | 103 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.12 | 0.28 | 2.87 | 2.05 | 1.16 | 4.8 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 38 | 1369 | 959 | 251 | -355 | 145 | 327 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.21 | 0.26 | 2.73 | 1.41 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 57 | 1369 | 521 | 251 | -355 | 97 | 468 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.27 | 0.24 | 2.60 | 0.76 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 76 | 1369 | 82 | 251 | -355 | 49 | 525 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.30 | 0.22 | 2.54 | 0.26 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 95 | 1369 | -357 | 251 | -355 | 2 | 499 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.29 | 0.23 | 2.55 | 0.52 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 114 | 1369 | -796 | 251 | -355 | -46 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.24 | 0.25 | 2.68 | 1.17 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 133 | 1369 | -1235 | 251 | -355 | -94 | 196 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.15 | 0.27 | 2.82 | 1.81 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152 | 1369 | -1673 | 251 | -355 | -142 | -80 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.10 | 0.30 | 3.03 | 2.46 | 1.16 | 15.2 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 15.2 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 171 | 1369 | -2112 | 251 | -355 | -189 | -440 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.26 | 0.32 | 3.19 | 3.10 | 1.16 | 4.8 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 190 | 1369 | -2551 | 251 | -355 | -237 | -883 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.47 | 0.35 | 3.34 | 3.75 | 1.16 | 4.8 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 4.8 ( e armatura base = 4 X 1.54 )

**ASTA NUM. 4** NI 6645 NF 6640 SEZ. Rp B= 20.0 H= 22.0 (trave)

categoria: p.p. y qy tot.
qy medio:  1.1000  1.1000  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 2 | 0 | -268 | -710 | -202 | -56 | -116 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.19 | 0.13 | 1.08 | 1.04 | 0.31 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 11 | -268 | -726 | -202 | -56 | -94 | 329 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.15 | 0.13 | 1.09 | 1.07 | 0.31 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 22 | -268 | -742 | -202 | -56 | -72 | 248 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.11 | 0.13 | 1.09 | 1.09 | 0.31 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 33 | -268 | -758 | -202 | -56 | -50 | 166 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.07 | 0.13 | 1.10 | 1.11 | 0.31 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 44 | -268 | -773 | -202 | -56 | -28 | 82 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.03 | 0.13 | 1.10 | 1.14 | 0.31 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 55 | -268 | -789 | -202 | -56 | -5 | -4 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.00 | 0.13 | 1.22 | 1.16 | 0.31 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 66 | -268 | -805 | -202 | -56 | 17 | -92 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.03 | 0.13 | 1.23 | 1.18 | 0.31 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 77 | -268 | -821 | -202 | -56 | 39 | -181 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.08 | 0.14 | 1.24 | 1.20 | 0.31 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 88 | -268 | -836 | -202 | -56 | 61 | -272 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.12 | 0.14 | 1.25 | 1.23 | 0.31 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 99 | -268 | -852 | -202 | -56 | 83 | -365 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.17 | 0.14 | 1.26 | 1.25 | 0.31 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 110 | -268 | -868 | -202 | -56 | 105 | -460 | 3.08 | 3.08 | 3.08 | 3.08 | 2 | 0.21 | 0.14 | 1.27 | 1.27 | 0.31 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |

**ASTA NUM. 24**     NI 7260    NF 9577    SEZ.  Rp  B= 25.0  H= 22.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.3750  12.2850    11.0160  24.6760  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | campo | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | kg | | | kg*m | | | cmq | | | | | Fx,M | Bielle | V,Mx | cmq/m | | cm |
| 2 | 0 | -3845 | 4064 | -342 | 31 | -389 | -1451 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.54 | 0.28 | 2.47 | 5.97 | 0.13 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 27 | -3845 | 3125 | -342 | 31 | -296 | -467 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.12 | 0.22 | 1.96 | 4.59 | 0.13 | 4.8 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 55 | -3845 | 2186 | -342 | 31 | -202 | 260 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.08 | 0.16 | 0.93 | 0.00 | 0.00 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 82 | -3845 | 1248 | -342 | 31 | -108 | 730 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.21 | 0.10 | 0.66 | 0.00 | 0.00 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 110 | -3845 | 309 | -342 | 31 | -14 | 943 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.31 | 0.05 | 0.48 | 0.00 | 0.00 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 137 | -3845 | -630 | -342 | 31 | 79 | 900 | 3.08 | 3.08 | 3.08 | 3.08 | 3 | 0.29 | 0.06 | 0.48 | 0.00 | 0.00 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 164 | -3845 | -1569 | -342 | 31 | 173 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.16 | 0.12 | 0.75 | 0.00 | 0.00 | 15.2 |
| apost= -- | aant= -- | ainf= -- | asup= -- | staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | | | |
| 2 | 192 | -3845 | -2508 | -342 | 31 | 267 | 40 | 3.08 | 3.08 | 3.08 | 3.08 | 6 | 0.07 | 0.18 | 1.03 | 3.68 | 0.13 | 15.2 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 219 | -3845 | -3446 | -342 | 31 | 361 | -775 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.23 | 0.24 | 2.14 | 5.06 | 0.13 | 15.2 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 15.2  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 246 | -3845 | -4385 | -342 | 31 | 454 | -1847 | 3.08 | 3.08 | 3.08 | 3.08 | 4 | 0.73 | 0.30 | 2.64 | 6.44 | 0.13 | 4.8 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 274 | -3845 | -5324 | -342 | 31 | 548 | -3176 | 3.08 | 3.08 | 3.08 | 4.62 | 3 | 0.93 | 0.36 | 3.14 | 7.82 | 0.13 | 4.8 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 4.8  ( e armatura base = 4 X 1.54 )

L E G E N D A

| Prima asta | Ultima asta | Nome disegno | Descrizione disegno |
|---|---|---|---|
| 1 | 2 | trave_4601_IP1.ARM | Trave_46 |
| 3 | 3 | trave_4602_IP1.ARM | Trave_46 |
| 4 | 4 | trave_4603_IP1.ARM | Trave_46 |
| 24 | 24 | trave_4604_IP1.ARM | Trave_46 |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **46** Tabella: **Tabella travi**
Descrizione: **Travi scala pt**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **3.0** cm Copriferro inferiore: **3.0** cm Copriferro laterale: **3.0** cm

Asta: **1**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **2**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **3**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **4**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **24**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

**AMV s.r.l.**
**Via San Lorenzo, 106 Tel. 0481/779903**
**34077 Ronchi dei Legionari (GO)**

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **48** Tabella: **Travi scala**
Descrizione: **travi scala 1p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 23** NI 7111 NF 17666 SEZ. Rp B= 20.0 H= 40.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 2.0000 10.1465 9.0984 21.2449 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 2587 | 18 | 0 | 26 | -1901 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1B | 0 | -0 | 2589 | 18 | 0 | 26 | -1903 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1C | 0 | -0 | 2587 | -18 | 0 | -26 | -1901 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1D | 0 | -0 | 2589 | -18 | 0 | -26 | -1903 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1E | 0 | -0 | 2587 | 18 | 0 | 26 | -1901 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1F | 0 | -0 | 2589 | 18 | 0 | 26 | -1903 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1G | 0 | -0 | 2587 | -18 | 0 | -26 | -1901 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1H | 0 | -0 | 2589 | -18 | 0 | -26 | -1903 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1I | 0 | -0 | 2586 | 41 | 0 | 60 | -1899 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1J | 0 | -0 | 2590 | 41 | 0 | 60 | -1905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1K | 0 | -0 | 2586 | -41 | 0 | -60 | -1899 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1L | 0 | -0 | 2590 | -41 | 0 | -60 | -1905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1M | 0 | -0 | 2586 | 41 | 0 | 60 | -1899 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1N | 0 | -0 | 2590 | 41 | 0 | 60 | -1905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1O | 0 | -0 | 2586 | -41 | 0 | -60 | -1899 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 1P | 0 | -0 | 2590 | -41 | 0 | -60 | -1905 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.43 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |
| 2 | 0 | -0 | 4327 | -0 | 0 | 0 | -3181 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.72 | 0.18 | 1.26 | 3.18 | 0.00 | 30.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 30.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 15 | -0 | 2328 | 18 | 0 | 24 | -1539 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1B | 15 | -0 | 2330 | 18 | 0 | 24 | -1542 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1C | 15 | -0 | 2328 | -18 | 0 | -24 | -1539 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1D | 15 | -0 | 2330 | -18 | 0 | -24 | -1542 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1E | 15 | -0 | 2328 | 18 | 0 | 24 | -1539 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1F | 15 | -0 | 2330 | 18 | 0 | 24 | -1542 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1G | 15 | -0 | 2328 | -18 | 0 | -24 | -1539 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1H | 15 | -0 | 2330 | -18 | 0 | -24 | -1542 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1I | 15 | -0 | 2327 | 41 | 0 | 54 | -1538 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1J | 15 | -0 | 2331 | 41 | 0 | 54 | -1543 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1K | 15 | -0 | 2327 | -41 | 0 | -54 | -1538 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1L | 15 | -0 | 2331 | -41 | 0 | -54 | -1543 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1M | 15 | -0 | 2327 | 41 | 0 | 54 | -1538 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1N | 15 | -0 | 2331 | 41 | 0 | 54 | -1543 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1O | 15 | -0 | 2327 | -41 | 0 | -54 | -1538 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 1P | 15 | -0 | 2331 | -41 | 0 | -54 | -1543 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.10 | 0.68 | 0.00 | 0.00 | 30.4 |
| 2 | 15 | -0 | 3894 | -0 | 0 | -0 | -2577 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.58 | 0.16 | 1.13 | 2.86 | 0.00 | 30.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 30.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 29 | -0 | 2070 | 18 | 0 | 21 | -1216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1B | 29 | -0 | 2071 | 18 | 0 | 21 | -1218 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1C | 29 | -0 | 2070 | -18 | 0 | -21 | -1216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1D | 29 | -0 | 2071 | -18 | 0 | -21 | -1218 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1E | 29 | -0 | 2070 | 18 | 0 | 21 | -1216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1F | 29 | -0 | 2071 | 18 | 0 | 21 | -1218 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1G | 29 | -0 | 2070 | -18 | 0 | -21 | -1216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1H | 29 | -0 | 2071 | -18 | 0 | -21 | -1218 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1I | 29 | -0 | 2068 | 41 | 0 | 48 | -1215 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1J | 29 | -0 | 2072 | 41 | 0 | 48 | -1220 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1K | 29 | -0 | 2068 | -41 | 0 | -48 | -1215 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1L | 29 | -0 | 2072 | -41 | 0 | -48 | -1220 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1M | 29 | -0 | 2068 | 41 | 0 | 48 | -1215 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1N | 29 | -0 | 2072 | 41 | 0 | 48 | -1220 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1O | 29 | -0 | 2068 | -41 | 0 | -48 | -1215 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 1P | 29 | -0 | 2072 | -41 | 0 | -48 | -1220 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.27 | 0.09 | 0.60 | 0.00 | 0.00 | 30.4 |
| 2 | 29 | -0 | 3462 | -0 | 0 | -0 | -2036 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.46 | 0.14 | 1.01 | 2.54 | 0.00 | 30.4 |

apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 30.4 ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | 1811 | 18 | 0 | 18 | -931 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1B | 44 | -0 | 1812 | 18 | 0 | 18 | -933 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1C | 44 | -0 | 1811 | -18 | 0 | -18 | -931 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1D | 44 | -0 | 1812 | -18 | 0 | -18 | -933 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1E | 44 | -0 | 1811 | 18 | 0 | 18 | -931 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1F | 44 | -0 | 1812 | 18 | 0 | 18 | -933 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1G | 44 | -0 | 1811 | -18 | 0 | -18 | -931 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1H | 44 | -0 | 1812 | -18 | 0 | -18 | -933 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1I | 44 | -0 | 1810 | 41 | 0 | 42 | -930 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1J | 44 | -0 | 1814 | 41 | 0 | 42 | -934 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1K | 44 | -0 | 1810 | -41 | 0 | -42 | -930 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1L | 44 | -0 | 1814 | -41 | 0 | -42 | -934 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1M | 44 | -0 | 1810 | 41 | 0 | 42 | -930 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1N | 44 | -0 | 1814 | 41 | 0 | 42 | -934 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1O | 44 | -0 | 1810 | -41 | 0 | -42 | -930 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 1P | 44 | -0 | 1814 | -41 | 0 | -42 | -934 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.21 | 0.08 | 0.53 | 0.00 | 0.00 | 30.4 |
| 2 | 44 | -0 | 3029 | -0 | 0 | -0 | -1559 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.35 | 0.13 | 0.88 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -0 | 1552 | 18 | 0 | 16 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1B | 59 | -0 | 1554 | 18 | 0 | 16 | -685 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1C | 59 | -0 | 1552 | -18 | 0 | -16 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1D | 59 | -0 | 1554 | -18 | 0 | -16 | -685 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1E | 59 | -0 | 1552 | 18 | 0 | 16 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1F | 59 | -0 | 1554 | 18 | 0 | 16 | -685 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1G | 59 | -0 | 1552 | -18 | 0 | -16 | -684 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1H | 59 | -0 | 1554 | -18 | 0 | -16 | -685 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1I | 59 | -0 | 1551 | 41 | 0 | 36 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1J | 59 | -0 | 1555 | 41 | 0 | 36 | -686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1K | 59 | -0 | 1551 | -41 | 0 | -36 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1L | 59 | -0 | 1555 | -41 | 0 | -36 | -686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1M | 59 | -0 | 1551 | 41 | 0 | 36 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1N | 59 | -0 | 1555 | 41 | 0 | 36 | -686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1O | 59 | -0 | 1551 | -41 | 0 | -36 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 1P | 59 | -0 | 1555 | -41 | 0 | -36 | -686 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.15 | 0.06 | 0.45 | 0.00 | 0.00 | 30.4 |
| 2 | 59 | -0 | 2596 | 0 | 0 | -0 | -1145 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.26 | 0.11 | 0.75 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -0 | 1293 | 18 | 0 | 13 | -475 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1B | 74 | -0 | 1295 | 18 | 0 | 13 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1C | 74 | -0 | 1293 | -18 | 0 | -13 | -475 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1D | 74 | -0 | 1295 | -18 | 0 | -13 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1E | 74 | -0 | 1293 | 18 | 0 | 13 | -475 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1F | 74 | -0 | 1295 | 18 | 0 | 13 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1G | 74 | -0 | 1293 | -18 | 0 | -13 | -475 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1H | 74 | -0 | 1295 | -18 | 0 | -13 | -476 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1I | 74 | -0 | 1292 | 41 | 0 | 30 | -474 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1J | 74 | -0 | 1296 | 41 | 0 | 30 | -477 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1K | 74 | -0 | 1292 | -41 | 0 | -30 | -474 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1L | 74 | -0 | 1296 | -41 | 0 | -30 | -477 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1M | 74 | -0 | 1292 | 41 | 0 | 30 | -474 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1N | 74 | -0 | 1296 | 41 | 0 | 30 | -477 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1O | 74 | -0 | 1292 | -41 | 0 | -30 | -474 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 1P | 74 | -0 | 1296 | -41 | 0 | -30 | -477 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |
| 2 | 74 | -0 | 2164 | 0 | 0 | -0 | -795 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.18 | 0.09 | 0.63 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | 1034 | 18 | 0 | 10 | -304 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1B | 88 | -0 | 1036 | 18 | 0 | 10 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1C | 88 | -0 | 1034 | -18 | 0 | -10 | -304 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1D | 88 | -0 | 1036 | -18 | 0 | -10 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1E | 88 | -0 | 1034 | 18 | 0 | 10 | -304 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1F | 88 | -0 | 1036 | 18 | 0 | 10 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1G | 88 | -0 | 1034 | -18 | 0 | -10 | -304 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1H | 88 | -0 | 1036 | -18 | 0 | -10 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1I | 88 | -0 | 1033 | 41 | 0 | 24 | -303 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1J | 88 | -0 | 1037 | 41 | 0 | 24 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1K | 88 | -0 | 1033 | -41 | 0 | -24 | -303 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1L | 88 | -0 | 1037 | -41 | 0 | -24 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1M | 88 | -0 | 1033 | 41 | 0 | 24 | -303 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1N | 88 | -0 | 1037 | 41 | 0 | 24 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1O | 88 | -0 | 1033 | -41 | 0 | -24 | -303 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 1P | 88 | -0 | 1037 | -41 | 0 | -24 | -305 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.07 | 0.04 | 0.30 | 0.00 | 0.00 | 30.4 |
| 2 | 88 | -0 | 1731 | -0 | 0 | -0 | -509 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.11 | 0.07 | 0.50 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 776 | 18 | 0 | 8 | -171 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1B | 103 | -0 | 777 | 18 | 0 | 8 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1C | 103 | -0 | 776 | -18 | 0 | -8 | -171 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1D | 103 | -0 | 777 | -18 | 0 | -8 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1E | 103 | -0 | 776 | 18 | 0 | 8 | -171 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1F | 103 | -0 | 777 | 18 | 0 | 8 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1G | 103 | -0 | 776 | -18 | 0 | -8 | -171 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1H | 103 | -0 | 777 | -18 | 0 | -8 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1I | 103 | -0 | 774 | 41 | 0 | 18 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.22 | 0.00 | 0.00 | 30.4 |
| 1J | 103 | -0 | 778 | 41 | 0 | 18 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1K | 103 | -0 | 774 | -41 | 0 | -18 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.22 | 0.00 | 0.00 | 30.4 |
| 1L | 103 | -0 | 778 | -41 | 0 | -18 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1M | 103 | -0 | 774 | 41 | 0 | 18 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.22 | 0.00 | 0.00 | 30.4 |
| 1N | 103 | -0 | 778 | 41 | 0 | 18 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 1O | 103 | -0 | 774 | -41 | 0 | -18 | -170 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.22 | 0.00 | 0.00 | 30.4 |
| 1P | 103 | -0 | 778 | -41 | 0 | -18 | -172 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.03 | 0.23 | 0.00 | 0.00 | 30.4 |
| 2 | 103 | -0 | 1298 | 0 | 0 | -0 | -286 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.06 | 0.05 | 0.38 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -0 | 517 | 18 | 0 | 5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1B | 118 | -0 | 518 | 18 | 0 | 5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1C | 118 | -0 | 517 | -18 | 0 | -5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1D | 118 | -0 | 518 | -18 | 0 | -5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1E | 118 | -0 | 517 | 18 | 0 | 5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1F | 118 | -0 | 518 | 18 | 0 | 5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1G | 118 | -0 | 517 | -18 | 0 | -5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1H | 118 | -0 | 518 | -18 | 0 | -5 | -76 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1I | 118 | -0 | 516 | 41 | 0 | 12 | -75 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1J | 118 | -0 | 520 | 41 | 0 | 12 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1K | 118 | -0 | 516 | -41 | 0 | -12 | -75 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1L | 118 | -0 | 520 | -41 | 0 | -12 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1M | 118 | -0 | 516 | 41 | 0 | 12 | -75 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1N | 118 | -0 | 520 | 41 | 0 | 12 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1O | 118 | -0 | 516 | -41 | 0 | -12 | -75 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 1P | 118 | -0 | 520 | -41 | 0 | -12 | -77 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.02 | 0.15 | 0.00 | 0.00 | 30.4 |
| 2 | 118 | -0 | 865 | 0 | 0 | -0 | -127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.04 | 0.25 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 132 | -0 | 258 | 18 | 0 | 3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1B | 132 | -0 | 260 | 18 | 0 | 3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1C | 132 | -0 | 258 | -18 | 0 | -3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1D | 132 | -0 | 260 | -18 | 0 | -3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1E | 132 | -0 | 258 | 18 | 0 | 3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1F | 132 | -0 | 260 | 18 | 0 | 3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1G | 132 | -0 | 258 | -18 | 0 | -3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1H | 132 | -0 | 260 | -18 | 0 | -3 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1I | 132 | -0 | 257 | 41 | 0 | 6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1J | 132 | -0 | 261 | 41 | 0 | 6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1K | 132 | -0 | 257 | -41 | 0 | -6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1L | 132 | -0 | 261 | -41 | 0 | -6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1M | 132 | -0 | 257 | 41 | 0 | 6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1N | 132 | -0 | 261 | 41 | 0 | 6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1O | 132 | -0 | 257 | -41 | 0 | -6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1P | 132 | -0 | 261 | -41 | 0 | -6 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 2 | 132 | -0 | 433 | 0 | 0 | -0 | -32 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.02 | 0.13 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -0 | -1 | 18 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1B | 147 | -0 | 1 | 18 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1C | 147 | -0 | -1 | -18 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1D | 147 | -0 | 1 | -18 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1E | 147 | -0 | -1 | 18 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1F | 147 | -0 | 1 | 18 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1G | 147 | -0 | -1 | -18 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1H | 147 | -0 | 1 | -18 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1I | 147 | -0 | -2 | 41 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1J | 147 | -0 | 2 | 41 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1K | 147 | -0 | -2 | -41 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1L | 147 | -0 | 2 | -41 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1M | 147 | -0 | -2 | 41 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1N | 147 | -0 | 2 | 41 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1O | 147 | -0 | -2 | -41 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1P | 147 | -0 | 2 | -41 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 2 | 147 | -0 | 0 | 0 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 24**  NI 7094  NF 17665  SEZ.  Rp  B= 20.0  H= 40.0  (trave)

categoria: p.p. y qy tot.
qy medio:  2.0000  2.0000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 294 | 2 | 0 | 3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1B | 0 | -0 | 294 | 2 | 0 | 3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1C | 0 | -0 | 294 | -2 | 0 | -3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1D | 0 | -0 | 294 | -2 | 0 | -3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1E | 0 | -0 | 294 | 2 | 0 | 3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1F | 0 | -0 | 294 | 2 | 0 | 3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1G | 0 | -0 | 294 | -2 | 0 | -3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1H | 0 | -0 | 294 | -2 | 0 | -3 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1I | 0 | -0 | 294 | 5 | 0 | 7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1J | 0 | -0 | 294 | 5 | 0 | 7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1K | 0 | -0 | 294 | -5 | 0 | -7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1L | 0 | -0 | 294 | -5 | 0 | -7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1M | 0 | -0 | 294 | 5 | 0 | 7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1N | 0 | -0 | 294 | 5 | 0 | 7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1O | 0 | -0 | 294 | -5 | 0 | -7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 1P | 0 | -0 | 294 | -5 | 0 | -7 | -216 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |
| 2 | 0 | -0 | 382 | 0 | 0 | 0 | -281 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.06 | 0.02 | 0.11 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 15 | -0 | 265 | 2 | 0 | 3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1B | 15 | -0 | 265 | 2 | 0 | 3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1C | 15 | -0 | 265 | -2 | 0 | -3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1D | 15 | -0 | 265 | -2 | 0 | -3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 15 | -0 | 265 | 2 | 0 | 3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1F | 15 | -0 | 265 | 2 | 0 | 3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1G | 15 | -0 | 265 | -2 | 0 | -3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1H | 15 | -0 | 265 | -2 | 0 | -3 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1I | 15 | -0 | 265 | 5 | 0 | 6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1J | 15 | -0 | 265 | 5 | 0 | 6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1K | 15 | -0 | 265 | -5 | 0 | -6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1L | 15 | -0 | 265 | -5 | 0 | -6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1M | 15 | -0 | 265 | 5 | 0 | 6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1N | 15 | -0 | 265 | 5 | 0 | 6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1O | 15 | -0 | 265 | -5 | 0 | -6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 1P | 15 | -0 | 265 | -5 | 0 | -6 | -175 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |
| 2 | 15 | -0 | 344 | -0 | 0 | -0 | -228 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.05 | 0.01 | 0.10 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 29 | -0 | 235 | 2 | 0 | 2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1B | 29 | -0 | 235 | 2 | 0 | 2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1C | 29 | -0 | 235 | -2 | 0 | -2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1D | 29 | -0 | 235 | -2 | 0 | -2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1E | 29 | -0 | 235 | 2 | 0 | 2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1F | 29 | -0 | 235 | 2 | 0 | 2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1G | 29 | -0 | 235 | -2 | 0 | -2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1H | 29 | -0 | 235 | -2 | 0 | -2 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1I | 29 | -0 | 235 | 5 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1J | 29 | -0 | 235 | 5 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1K | 29 | -0 | 235 | -5 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1L | 29 | -0 | 235 | -5 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1M | 29 | -0 | 235 | 5 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1N | 29 | -0 | 235 | 5 | 0 | 5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1O | 29 | -0 | 235 | -5 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 1P | 29 | -0 | 235 | -5 | 0 | -5 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |
| 2 | 29 | -0 | 306 | -0 | 0 | -0 | -180 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.04 | 0.01 | 0.09 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | 206 | 2 | 0 | 2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1B | 44 | -0 | 206 | 2 | 0 | 2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1C | 44 | -0 | 206 | -2 | 0 | -2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1D | 44 | -0 | 206 | -2 | 0 | -2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1E | 44 | -0 | 206 | 2 | 0 | 2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1F | 44 | -0 | 206 | 2 | 0 | 2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1G | 44 | -0 | 206 | -2 | 0 | -2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1H | 44 | -0 | 206 | -2 | 0 | -2 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1I | 44 | -0 | 206 | 5 | 0 | 5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1J | 44 | -0 | 206 | 5 | 0 | 5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1K | 44 | -0 | 206 | -5 | 0 | -5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1L | 44 | -0 | 206 | -5 | 0 | -5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1M | 44 | -0 | 206 | 5 | 0 | 5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1N | 44 | -0 | 206 | 5 | 0 | 5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1O | 44 | -0 | 206 | -5 | 0 | -5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 1P | 44 | -0 | 206 | -5 | 0 | -5 | -106 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |
| 2 | 44 | -0 | 268 | -0 | 0 | -0 | -138 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.03 | 0.01 | 0.08 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -0 | 176 | 2 | 0 | 2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1B | 59 | -0 | 176 | 2 | 0 | 2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1C | 59 | -0 | 176 | -2 | 0 | -2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1D | 59 | -0 | 176 | -2 | 0 | -2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1E | 59 | -0 | 176 | 2 | 0 | 2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1F | 59 | -0 | 176 | 2 | 0 | 2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1G | 59 | -0 | 176 | -2 | 0 | -2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1H | 59 | -0 | 176 | -2 | 0 | -2 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1I | 59 | -0 | 176 | 5 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1J | 59 | -0 | 176 | 5 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1K | 59 | -0 | 176 | -5 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1L | 59 | -0 | 176 | -5 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1M | 59 | -0 | 176 | 5 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1N | 59 | -0 | 176 | 5 | 0 | 4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1O | 59 | -0 | 176 | -5 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 1P | 59 | -0 | 176 | -5 | 0 | -4 | -78 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 30.4 |
| 2 | 59 | -0 | 229 | -0 | 0 | -0 | -101 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.07 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 74 | -0 | 147 | 2 | 0 | 1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1B | 74 | -0 | 147 | 2 | 0 | 1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1C | 74 | -0 | 147 | -2 | 0 | -1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1D | 74 | -0 | 147 | -2 | 0 | -1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1E | 74 | -0 | 147 | 2 | 0 | 1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1F | 74 | -0 | 147 | 2 | 0 | 1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1G | 74 | -0 | 147 | -2 | 0 | -1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1H | 74 | -0 | 147 | -2 | 0 | -1 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1I | 74 | -0 | 147 | 5 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1J | 74 | -0 | 147 | 5 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1K | 74 | -0 | 147 | -5 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1L | 74 | -0 | 147 | -5 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1M | 74 | -0 | 147 | 5 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1N | 74 | -0 | 147 | 5 | 0 | 3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1O | 74 | -0 | 147 | -5 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 1P | 74 | -0 | 147 | -5 | 0 | -3 | -54 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |
| 2 | 74 | -0 | 191 | 0 | 0 | -0 | -70 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.02 | 0.01 | 0.06 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | 118 | 2 | 0 | 1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1B | 88 | -0 | 118 | 2 | 0 | 1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 88 | -0 | 118 | -2 | 0 | -1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1D | 88 | -0 | 118 | -2 | 0 | -1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1E | 88 | -0 | 118 | 2 | 0 | 1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1F | 88 | -0 | 118 | 2 | 0 | 1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1G | 88 | -0 | 118 | -2 | 0 | -1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1H | 88 | -0 | 118 | -2 | 0 | -1 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1I | 88 | -0 | 118 | 5 | 0 | 3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1J | 88 | -0 | 118 | 5 | 0 | 3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1K | 88 | -0 | 118 | -5 | 0 | -3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1L | 88 | -0 | 118 | -5 | 0 | -3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1M | 88 | -0 | 118 | 5 | 0 | 3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1N | 88 | -0 | 118 | 5 | 0 | 3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1O | 88 | -0 | 118 | -5 | 0 | -3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1P | 88 | -0 | 118 | -5 | 0 | -3 | -35 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 2 | 88 | -0 | 153 | -0 | 0 | -0 | -45 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.01 | 0.04 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | 88 | 2 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1B | 103 | -0 | 88 | 2 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1C | 103 | -0 | 88 | -2 | 0 | -1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1D | 103 | -0 | 88 | -2 | 0 | -1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1E | 103 | -0 | 88 | 2 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1F | 103 | -0 | 88 | 2 | 0 | 1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1G | 103 | -0 | 88 | -2 | 0 | -1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1H | 103 | -0 | 88 | -2 | 0 | -1 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1I | 103 | -0 | 88 | 5 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1J | 103 | -0 | 88 | 5 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1K | 103 | -0 | 88 | -5 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1L | 103 | -0 | 88 | -5 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1M | 103 | -0 | 88 | 5 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1N | 103 | -0 | 88 | 5 | 0 | 2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1O | 103 | -0 | 88 | -5 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 1P | 103 | -0 | 88 | -5 | 0 | -2 | -19 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |
| 2 | 103 | -0 | 115 | -0 | 0 | -0 | -25 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 118 | -0 | 59 | 2 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1B | 118 | -0 | 59 | 2 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1C | 118 | -0 | 59 | -2 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1D | 118 | -0 | 59 | -2 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1E | 118 | -0 | 59 | 2 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1F | 118 | -0 | 59 | 2 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1G | 118 | -0 | 59 | -2 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1H | 118 | -0 | 59 | -2 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1I | 118 | -0 | 59 | 5 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1J | 118 | -0 | 59 | 5 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1K | 118 | -0 | 59 | -5 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1L | 118 | -0 | 59 | -5 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1M | 118 | -0 | 59 | 5 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1N | 118 | -0 | 59 | 5 | 0 | 1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1O | 118 | -0 | 59 | -5 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 1P | 118 | -0 | 59 | -5 | 0 | -1 | -9 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |
| 2 | 118 | -0 | 76 | -0 | 0 | -0 | -11 | 3.08 | 3.08 | 3.08 | 3.08 | 0.12 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 132 | -0 | 29 | 2 | 0 | 0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1B | 132 | -0 | 29 | 2 | 0 | 0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1C | 132 | -0 | 29 | -2 | 0 | -0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1D | 132 | -0 | 29 | -2 | 0 | -0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1E | 132 | -0 | 29 | 2 | 0 | 0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1F | 132 | -0 | 29 | 2 | 0 | 0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1G | 132 | -0 | 29 | -2 | 0 | -0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1H | 132 | -0 | 29 | -2 | 0 | -0 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1I | 132 | -0 | 29 | 5 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1J | 132 | -0 | 29 | 5 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1K | 132 | -0 | 29 | -5 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1L | 132 | -0 | 29 | -5 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1M | 132 | -0 | 29 | 5 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1N | 132 | -0 | 29 | 5 | 0 | 1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1O | 132 | -0 | 29 | -5 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 1P | 132 | -0 | 29 | -5 | 0 | -1 | -2 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |
| 2 | 132 | -0 | 38 | -0 | 0 | -0 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 147 | -0 | -0 | 2 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1B | 147 | -0 | 0 | 2 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1C | 147 | -0 | -0 | -2 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1D | 147 | -0 | 0 | -2 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1E | 147 | -0 | -0 | 2 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1F | 147 | -0 | 0 | 2 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1G | 147 | -0 | -0 | -2 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1H | 147 | -0 | 0 | -2 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1I | 147 | -0 | -0 | 5 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1J | 147 | -0 | 0 | 5 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1K | 147 | -0 | -0 | -5 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1L | 147 | -0 | 0 | -5 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1M | 147 | -0 | -0 | 5 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1N | 147 | -0 | 0 | 5 | 0 | -0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1O | 147 | -0 | -0 | -5 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 1P | 147 | -0 | 0 | -5 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |
| 2 | 147 | -0 | -0 | 0 | 0 | 0 | 0 | 3.08 | 3.08 | 3.08 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.4 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 30.4  ( e armatura base = 4 X 1.54 )

**AMV s.r.l.**
**Via San Lorenzo, 106 Tel. 0481/779903**
**34077 Ronchi dei Legionari (GO)**

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **48** Tabella: **Travi scala**
Descrizione: **travi scala 1p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm
Verifica in ottemperanza alle NTC2008 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 19** NI 7120 NF 6683 SEZ. Rp B= 30.0 H= 22.0 (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio: 1.6500 10.5000 8.1600 20.3100 kg/cm

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 3536 | -54 | 0 | 86 | -1280 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.19 | 1.04 | 4.93 | 0.00 | 5.0 |
| 1B | 0 | -0 | 4094 | -54 | 0 | 86 | -2190 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.21 | 1.20 | 5.71 | 0.00 | 5.0 |
| 1C | 0 | -0 | 3536 | -957 | 0 | -553 | -1280 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.19 | 1.04 | 4.93 | 0.00 | 5.0 |
| 1D | 0 | -0 | 4094 | -957 | 0 | -553 | -2190 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.21 | 1.20 | 5.71 | 0.00 | 5.0 |
| 1E | 0 | -0 | 3536 | -54 | 0 | 86 | -1280 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.19 | 1.04 | 4.93 | 0.00 | 5.0 |
| 1F | 0 | -0 | 4094 | -54 | 0 | 86 | -2190 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.21 | 1.20 | 5.71 | 0.00 | 5.0 |
| 1G | 0 | -0 | 3536 | -957 | 0 | -553 | -1280 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.19 | 1.04 | 4.93 | 0.00 | 5.0 |
| 1H | 0 | -0 | 4094 | -957 | 0 | -553 | -2190 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.21 | 1.20 | 5.71 | 0.00 | 5.0 |
| 1I | 0 | -0 | 3168 | 539 | 0 | 506 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 4462 | 539 | 0 | 506 | -2787 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.83 | 0.23 | 1.14 | 6.22 | 0.00 | 5.0 |
| 1K | 0 | -0 | 3168 | -1551 | 0 | -972 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 4462 | -1551 | 0 | -972 | -2787 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.83 | 0.23 | 1.14 | 6.22 | 0.00 | 5.0 |
| 1M | 0 | -0 | 3168 | 539 | 0 | 506 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 4462 | 539 | 0 | 506 | -2787 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.83 | 0.23 | 1.14 | 6.22 | 0.00 | 5.0 |
| 1O | 0 | -0 | 3168 | -1551 | 0 | -972 | -683 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.17 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 4462 | -1551 | 0 | -972 | -2787 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.83 | 0.23 | 1.14 | 6.22 | 0.00 | 5.0 |
| 2 | 0 | -0 | 6156 | -740 | 0 | -342 | -2722 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.81 | 0.32 | 1.58 | 8.59 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | |
| 1A | 10 | -0 | 3367 | -54 | 0 | 92 | -939 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1B | 10 | -0 | 3926 | -54 | 0 | 92 | -1793 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.15 | 5.48 | 0.00 | 5.0 |
| 1C | 10 | -0 | 3367 | -957 | 0 | -458 | -939 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1D | 10 | -0 | 3926 | -957 | 0 | -458 | -1793 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.15 | 5.48 | 0.00 | 5.0 |
| 1E | 10 | -0 | 3367 | -54 | 0 | 92 | -939 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1F | 10 | -0 | 3926 | -54 | 0 | 92 | -1793 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.15 | 5.48 | 0.00 | 5.0 |
| 1G | 10 | -0 | 3367 | -957 | 0 | -458 | -939 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.18 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1H | 10 | -0 | 3926 | -957 | 0 | -458 | -1793 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.21 | 1.15 | 5.48 | 0.00 | 5.0 |
| 1I | 10 | -0 | 3000 | 539 | 0 | 452 | -378 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.16 | 0.88 | 0.00 | 0.00 | 5.0 |
| 1J | 10 | -0 | 4293 | 539 | 0 | 452 | -2354 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.70 | 0.23 | 1.10 | 5.99 | 0.00 | 5.0 |
| 1K | 10 | -0 | 3000 | -1551 | 0 | -819 | -378 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.16 | 0.88 | 0.00 | 0.00 | 5.0 |
| 1L | 10 | -0 | 4293 | -1551 | 0 | -819 | -2354 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.70 | 0.23 | 1.10 | 5.99 | 0.00 | 5.0 |
| 1M | 10 | -0 | 3000 | 539 | 0 | 452 | -378 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.16 | 0.88 | 0.00 | 0.00 | 5.0 |
| 1N | 10 | -0 | 4293 | 539 | 0 | 452 | -2354 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.70 | 0.23 | 1.10 | 5.99 | 0.00 | 5.0 |
| 1O | 10 | -0 | 3000 | -1551 | 0 | -819 | -378 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.16 | 0.88 | 0.00 | 0.00 | 5.0 |
| 1P | 10 | -0 | 4293 | -1551 | 0 | -819 | -2354 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.70 | 0.23 | 1.10 | 5.99 | 0.00 | 5.0 |
| 2 | 10 | -0 | 5879 | -740 | 0 | -269 | -2126 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.93 | 0.31 | 1.72 | 8.20 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | |
| 1A | 20 | -0 | 3198 | -54 | 0 | 97 | -614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1B | 20 | -0 | 3757 | -54 | 0 | 97 | -1412 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.10 | 5.24 | 0.00 | 5.0 |
| 1C | 20 | -0 | 3198 | -957 | 0 | -363 | -614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1D | 20 | -0 | 3757 | -957 | 0 | -363 | -1412 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.10 | 5.24 | 0.00 | 5.0 |
| 1E | 20 | -0 | 3198 | -54 | 0 | 97 | -614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1F | 20 | -0 | 3757 | -54 | 0 | 97 | -1412 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.10 | 5.24 | 0.00 | 5.0 |
| 1G | 20 | -0 | 3198 | -957 | 0 | -363 | -614 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.17 | 0.94 | 0.00 | 0.00 | 5.0 |
| 1H | 20 | -0 | 3757 | -957 | 0 | -363 | -1412 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.62 | 0.20 | 1.10 | 5.24 | 0.00 | 5.0 |
| 1I | 20 | -0 | 2831 | 539 | 0 | 399 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1J | 20 | -0 | 4124 | 539 | 0 | 399 | -1937 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.22 | 1.21 | 5.75 | 0.00 | 5.0 |
| 1K | 20 | -0 | 2831 | -1551 | 0 | -665 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.15 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1L | 20 | -0 | 4124 | -1551 | 0 | -665 | -1937 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.22 | 1.21 | 5.75 | 0.00 | 5.0 |
| 1M | 20 | -0 | 2831 | 539 | 0 | 399 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.15 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1N | 20 | -0 | 4124 | 539 | 0 | 399 | -1937 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.22 | 1.21 | 5.75 | 0.00 | 5.0 |
| 1O | 20 | -0 | 2831 | -1551 | 0 | -665 | -89 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.15 | 0.83 | 0.00 | 0.00 | 5.0 |
| 1P | 20 | -0 | 4124 | -1551 | 0 | -665 | -1937 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.85 | 0.22 | 1.21 | 5.75 | 0.00 | 5.0 |
| 2 | 20 | -0 | 5601 | -740 | 0 | -196 | -1558 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.68 | 0.29 | 1.64 | 7.81 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d 8 / 5.0 ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 30 | -0 | 3029 | -54 | 0 | 102 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1B | 30 | -0 | 3588 | -54 | 0 | 102 | -1049 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.05 | 5.01 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1C | 30 | -0 | 3029 | -957 | 0 | -268 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1D | 30 | -0 | 3588 | -957 | 0 | -268 | -1049 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.05 | 5.01 | 0.00 | 5.0 |
| 1E | 30 | -0 | 3029 | -54 | 0 | 102 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1F | 30 | -0 | 3588 | -54 | 0 | 102 | -1049 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.05 | 5.01 | 0.00 | 5.0 |
| 1G | 30 | -0 | 3029 | -957 | 0 | -268 | -306 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.16 | 0.89 | 0.00 | 0.00 | 5.0 |
| 1H | 30 | -0 | 3588 | -957 | 0 | -268 | -1049 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.46 | 0.19 | 1.05 | 5.01 | 0.00 | 5.0 |
| 1I | 30 | -0 | 2662 | 539 | 0 | 346 | 183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1J | 30 | -0 | 3955 | 539 | 0 | 346 | -1537 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.21 | 1.16 | 5.52 | 0.00 | 5.0 |
| 1K | 30 | -0 | 2662 | -1551 | 0 | -512 | 183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.14 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1L | 30 | -0 | 3955 | -1551 | 0 | -512 | -1537 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.21 | 1.16 | 5.52 | 0.00 | 5.0 |
| 1M | 30 | -0 | 2662 | 539 | 0 | 346 | 183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1N | 30 | -0 | 3955 | 539 | 0 | 346 | -1537 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.21 | 1.16 | 5.52 | 0.00 | 5.0 |
| 1O | 30 | -0 | 2662 | -1551 | 0 | -512 | 183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.14 | 0.78 | 0.00 | 0.00 | 5.0 |
| 1P | 30 | -0 | 3955 | -1551 | 0 | -512 | -1537 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.21 | 1.16 | 5.52 | 0.00 | 5.0 |
| 2 | 30 | -0 | 5324 | -740 | 0 | -122 | -1017 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.28 | 1.56 | 7.43 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 40 | -0 | 2860 | -54 | 0 | 108 | -14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1B | 40 | -0 | 3419 | -54 | 0 | 108 | -702 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.00 | 4.77 | 0.00 | 16.0 |
| 1C | 40 | -0 | 2860 | -957 | 0 | -173 | -14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1D | 40 | -0 | 3419 | -957 | 0 | -173 | -702 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.00 | 4.77 | 0.00 | 16.0 |
| 1E | 40 | -0 | 2860 | -54 | 0 | 108 | -14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1F | 40 | -0 | 3419 | -54 | 0 | 108 | -702 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.00 | 4.77 | 0.00 | 16.0 |
| 1G | 40 | -0 | 2860 | -957 | 0 | -173 | -14 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.15 | 0.84 | 0.00 | 0.00 | 16.0 |
| 1H | 40 | -0 | 3419 | -957 | 0 | -173 | -702 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.31 | 0.18 | 1.00 | 4.77 | 0.00 | 16.0 |
| 1I | 40 | -0 | 2493 | 539 | 0 | 292 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1J | 40 | -0 | 3786 | 539 | 0 | 292 | -1154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.20 | 1.11 | 5.28 | 0.00 | 16.0 |
| 1K | 40 | -0 | 2493 | -1551 | 0 | -358 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1L | 40 | -0 | 3786 | -1551 | 0 | -358 | -1154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.20 | 1.11 | 5.28 | 0.00 | 16.0 |
| 1M | 40 | -0 | 2493 | 539 | 0 | 292 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1N | 40 | -0 | 3786 | 539 | 0 | 292 | -1154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.20 | 1.11 | 5.28 | 0.00 | 16.0 |
| 1O | 40 | -0 | 2493 | -1551 | 0 | -358 | 438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.13 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1P | 40 | -0 | 3786 | -1551 | 0 | -358 | -1154 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.20 | 1.11 | 5.28 | 0.00 | 16.0 |
| 2 | 40 | -0 | 5046 | -740 | 0 | -49 | -504 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.26 | 1.48 | 7.04 | 0.00 | 14.3 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 14.3  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 50 | -0 | 2692 | -54 | 0 | 113 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1B | 50 | -0 | 3250 | -54 | 0 | 113 | -372 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.95 | 0.00 | 0.00 | 16.0 |
| 1C | 50 | -0 | 2692 | -957 | 0 | -79 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1D | 50 | -0 | 3250 | -957 | 0 | -79 | -372 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.95 | 0.00 | 0.00 | 16.0 |
| 1E | 50 | -0 | 2692 | -54 | 0 | 113 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1F | 50 | -0 | 3250 | -54 | 0 | 113 | -372 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.95 | 0.00 | 0.00 | 16.0 |
| 1G | 50 | -0 | 2692 | -957 | 0 | -79 | 261 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.14 | 0.79 | 0.00 | 0.00 | 16.0 |
| 1H | 50 | -0 | 3250 | -957 | 0 | -79 | -372 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.17 | 0.95 | 0.00 | 0.00 | 16.0 |
| 1I | 50 | -0 | 2324 | 539 | 0 | 239 | 676 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1J | 50 | -0 | 3618 | 539 | 0 | 239 | -788 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.19 | 1.06 | 5.05 | 0.00 | 16.0 |
| 1K | 50 | -0 | 2324 | -1551 | 0 | -205 | 676 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1L | 50 | -0 | 3618 | -1551 | 0 | -205 | -788 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.19 | 1.06 | 5.05 | 0.00 | 16.0 |
| 1M | 50 | -0 | 2324 | 539 | 0 | 239 | 676 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1N | 50 | -0 | 3618 | 539 | 0 | 239 | -788 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.19 | 1.06 | 5.05 | 0.00 | 16.0 |
| 1O | 50 | -0 | 2324 | -1551 | 0 | -205 | 676 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.12 | 0.68 | 0.00 | 0.00 | 16.0 |
| 1P | 50 | -0 | 3618 | -1551 | 0 | -205 | -788 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.19 | 1.06 | 5.05 | 0.00 | 16.0 |
| 2 | 50 | -0 | 4769 | -740 | 0 | 24 | -18 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.01 | 0.25 | 1.40 | 6.65 | 0.00 | 15.1 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 15.1  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 59 | -0 | 2523 | -54 | 0 | 118 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1B | 59 | -0 | 3082 | -54 | 0 | 118 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.90 | 0.00 | 0.00 | 16.0 |
| 1C | 59 | -0 | 2523 | -957 | 0 | 16 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1D | 59 | -0 | 3082 | -957 | 0 | 16 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.16 | 0.90 | 0.00 | 0.00 | 16.0 |
| 1E | 59 | -0 | 2523 | -54 | 0 | 118 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1F | 59 | -0 | 3082 | -54 | 0 | 118 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.16 | 0.90 | 0.00 | 0.00 | 16.0 |
| 1G | 59 | -0 | 2523 | -957 | 0 | 16 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.13 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1H | 59 | -0 | 3082 | -957 | 0 | 16 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.03 | 0.16 | 0.90 | 0.00 | 0.00 | 16.0 |
| 1I | 59 | -0 | 2156 | 539 | 0 | 185 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1J | 59 | -0 | 3449 | 539 | 0 | 185 | -438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.18 | 1.01 | 4.81 | 0.00 | 16.0 |
| 1K | 59 | -0 | 2156 | -1551 | 0 | -51 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1L | 59 | -0 | 3449 | -1551 | 0 | -51 | -438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.18 | 1.01 | 4.81 | 0.00 | 16.0 |
| 1M | 59 | -0 | 2156 | 539 | 0 | 185 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1N | 59 | -0 | 3449 | 539 | 0 | 185 | -438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.18 | 1.01 | 4.81 | 0.00 | 16.0 |
| 1O | 59 | -0 | 2156 | -1551 | 0 | -51 | 898 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.11 | 0.63 | 0.00 | 0.00 | 16.0 |
| 1P | 59 | -0 | 3449 | -1551 | 0 | -51 | -438 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.18 | 1.01 | 4.81 | 0.00 | 16.0 |
| 2 | 59 | -0 | 4491 | -740 | 0 | 97 | 440 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.19 | 0.24 | 1.32 | 6.26 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 69 | -0 | 2354 | -54 | 0 | 124 | 760 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1B | 69 | -0 | 2913 | -54 | 0 | 124 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.15 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1C | 69 | -0 | 2354 | -957 | 0 | 111 | 760 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1D | 69 | -0 | 2913 | -957 | 0 | 111 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.15 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1E | 69 | -0 | 2354 | -54 | 0 | 124 | 760 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1F | 69 | -0 | 2913 | -54 | 0 | 124 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.15 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1G | 69 | -0 | 2354 | -957 | 0 | 111 | 760 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.12 | 0.69 | 0.00 | 0.00 | 16.0 |
| 1H | 69 | -0 | 2913 | -957 | 0 | 111 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.15 | 0.85 | 0.00 | 0.00 | 16.0 |
| 1I | 69 | -0 | 1987 | 539 | 0 | 132 | 1103 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1J | 69 | -0 | 3280 | 539 | 0 | 132 | -105 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1K | 69 | -0 | 1987 | -1551 | 0 | 102 | 1103 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1L | 69 | -0 | 3280 | -1551 | 0 | 102 | -105 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1M | 69 | -0 | 1987 | 539 | 0 | 132 | 1103 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1N | 69 | -0 | 3280 | 539 | 0 | 132 | -105 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 1O | 69 | -0 | 1987 | -1551 | 0 | 102 | 1103 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.10 | 0.58 | 0.00 | 0.00 | 16.0 |
| 1P | 69 | -0 | 3280 | -1551 | 0 | 102 | -105 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.17 | 0.96 | 0.00 | 0.00 | 16.0 |
| 2 | 69 | -0 | 4214 | -740 | 0 | 171 | 871 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.22 | 1.24 | 5.88 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 79 | -0 | 2185 | -54 | 0 | 129 | 985 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1B | 79 | -0 | 2744 | -54 | 0 | 129 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1C | 79 | -0 | 2185 | -957 | 0 | 206 | 985 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1D | 79 | -0 | 2744 | -957 | 0 | 206 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1E | 79 | -0 | 2185 | -54 | 0 | 129 | 985 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1F | 79 | -0 | 2744 | -54 | 0 | 129 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1G | 79 | -0 | 2185 | -957 | 0 | 206 | 985 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.43 | 0.11 | 0.64 | 0.00 | 0.00 | 16.0 |
| 1H | 79 | -0 | 2744 | -957 | 0 | 206 | 518 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.14 | 0.80 | 0.00 | 0.00 | 16.0 |
| 1I | 79 | -0 | 1818 | 539 | 0 | 79 | 1291 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.10 | 0.53 | 0.00 | 0.00 | 16.0 |
| 1J | 79 | -0 | 3111 | 539 | 0 | 79 | 212 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1K | 79 | -0 | 1818 | -1551 | 0 | 256 | 1291 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.10 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1L | 79 | -0 | 3111 | -1551 | 0 | 256 | 212 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1M | 79 | -0 | 1818 | 539 | 0 | 79 | 1291 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.10 | 0.53 | 0.00 | 0.00 | 16.0 |
| 1N | 79 | -0 | 3111 | 539 | 0 | 79 | 212 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 1O | 79 | -0 | 1818 | -1551 | 0 | 256 | 1291 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.10 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1P | 79 | -0 | 3111 | -1551 | 0 | 256 | 212 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.91 | 0.00 | 0.00 | 16.0 |
| 2 | 79 | -0 | 3936 | -740 | 0 | 244 | 1275 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.21 | 1.15 | 5.49 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 89 | -0 | 2016 | -54 | 0 | 134 | 1193 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1B | 89 | -0 | 2575 | -54 | 0 | 134 | 781 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1C | 89 | -0 | 2016 | -957 | 0 | 300 | 1193 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1D | 89 | -0 | 2575 | -957 | 0 | 300 | 781 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1E | 89 | -0 | 2016 | -54 | 0 | 134 | 1193 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1F | 89 | -0 | 2575 | -54 | 0 | 134 | 781 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1G | 89 | -0 | 2016 | -957 | 0 | 300 | 1193 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.52 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1H | 89 | -0 | 2575 | -957 | 0 | 300 | 781 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1I | 89 | -0 | 1649 | 539 | 0 | 25 | 1463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.09 | 0.48 | 0.00 | 0.00 | 16.0 |
| 1J | 89 | -0 | 2942 | 539 | 0 | 25 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1K | 89 | -0 | 1649 | -1551 | 0 | 410 | 1463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.09 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1L | 89 | -0 | 2942 | -1551 | 0 | 410 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1M | 89 | -0 | 1649 | 539 | 0 | 25 | 1463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.09 | 0.48 | 0.00 | 0.00 | 16.0 |
| 1N | 89 | -0 | 2942 | 539 | 0 | 25 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1O | 89 | -0 | 1649 | -1551 | 0 | 410 | 1463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.64 | 0.09 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1P | 89 | -0 | 2942 | -1551 | 0 | 410 | 511 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.22 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 2 | 89 | -0 | 3658 | -740 | 0 | 317 | 1651 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.72 | 0.19 | 1.07 | 5.10 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 99 | -0 | 1848 | -54 | 0 | 140 | 1384 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1B | 99 | -0 | 2406 | -54 | 0 | 140 | 1028 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1C | 99 | -0 | 1848 | -957 | 0 | 395 | 1384 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1D | 99 | -0 | 2406 | -957 | 0 | 395 | 1028 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1E | 99 | -0 | 1848 | -54 | 0 | 140 | 1384 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1F | 99 | -0 | 2406 | -54 | 0 | 140 | 1028 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1G | 99 | -0 | 1848 | -957 | 0 | 395 | 1384 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.61 | 0.10 | 0.54 | 0.00 | 0.00 | 16.0 |
| 1H | 99 | -0 | 2406 | -957 | 0 | 395 | 1028 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |
| 1I | 99 | -0 | 1480 | 539 | 0 | -28 | 1618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.71 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1J | 99 | -0 | 2774 | 539 | 0 | -28 | 794 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1K | 99 | -0 | 1480 | -1551 | 0 | 563 | 1618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.71 | 0.08 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1L | 99 | -0 | 2774 | -1551 | 0 | 563 | 794 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1M | 99 | -0 | 1480 | 539 | 0 | -28 | 1618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.71 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1N | 99 | -0 | 2774 | 539 | 0 | -28 | 794 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 1O | 99 | -0 | 1480 | -1551 | 0 | 563 | 1618 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.71 | 0.08 | 0.57 | 0.00 | 0.00 | 16.0 |
| 1P | 99 | -0 | 2774 | -1551 | 0 | 563 | 794 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.15 | 0.81 | 0.00 | 0.00 | 16.0 |
| 2 | 99 | -0 | 3381 | -740 | 0 | 390 | 1999 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.18 | 0.99 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 20**  NI 6683  NF 6907  SEZ.  Rp  B= 30.0  H= 22.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.6500  10.5000  8.1600  20.3100  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -134 | 270 | 0 | 250 | 1365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1B | 0 | -0 | 760 | 270 | 0 | 250 | 757 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1C | 0 | -0 | -134 | -36 | 0 | 47 | 1365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.01 | 0.04 | 0.00 | 0.00 | 16.0 |
| 1D | 0 | -0 | 760 | -36 | 0 | 47 | 757 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1E | 0 | -0 | -134 | 270 | 0 | 250 | 1365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1F | 0 | -0 | 760 | 270 | 0 | 250 | 757 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1G | 0 | -0 | -134 | -36 | 0 | 47 | 1365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.60 | 0.01 | 0.04 | 0.00 | 0.00 | 16.0 |
| 1H | 0 | -0 | 760 | -36 | 0 | 47 | 757 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1I | 0 | -0 | -721 | 472 | 0 | 383 | 1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1J | 0 | -0 | 1347 | 472 | 0 | 383 | 358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1K | 0 | -0 | -721 | -238 | 0 | -87 | 1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1L | 0 | -0 | 1347 | -238 | 0 | -87 | 358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1M | 0 | -0 | -721 | 472 | 0 | 383 | 1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1N | 0 | -0 | 1347 | 472 | 0 | 383 | 358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1O | 0 | -0 | -721 | -238 | 0 | -87 | 1764 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |
| 1P | 0 | -0 | 1347 | -238 | 0 | -87 | 358 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 2 | 0 | -0 | 423 | 169 | 0 | 213 | 1801 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.79 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 21 | -0 | -483 | 270 | 0 | 194 | 1302 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.03 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1B | 21 | -0 | 410 | 270 | 0 | 194 | 877 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1C | 21 | -0 | -483 | -36 | 0 | 54 | 1302 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.03 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1D | 21 | -0 | 410 | -36 | 0 | 54 | 877 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1E | 21 | -0 | -483 | 270 | 0 | 194 | 1302 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.03 | 0.14 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1F | 21 | -0 | 410 | 270 | 0 | 194 | 877 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1G | 21 | -0 | -483 | -36 | 0 | 54 | 1302 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.57 | 0.03 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1H | 21 | -0 | 410 | -36 | 0 | 54 | 877 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1I | 21 | -0 | -1071 | 472 | 0 | 286 | 1580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1J | 21 | -0 | 997 | 472 | 0 | 286 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1K | 21 | -0 | -1071 | -238 | 0 | -38 | 1580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1L | 21 | -0 | 997 | -238 | 0 | -38 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1M | 21 | -0 | -1071 | 472 | 0 | 286 | 1580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1N | 21 | -0 | 997 | 472 | 0 | 286 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1O | 21 | -0 | -1071 | -238 | 0 | -38 | 1580 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.69 | 0.06 | 0.31 | 0.00 | 0.00 | 16.0 |
| 1P | 21 | -0 | 997 | -238 | 0 | -38 | 598 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 2 | 21 | -0 | -152 | 169 | 0 | 178 | 1829 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.80 | 0.01 | 0.06 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 41 | -0 | -833 | 270 | 0 | 139 | 1167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1B | 41 | -0 | 61 | 270 | 0 | 139 | 925 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1C | 41 | -0 | -833 | -36 | 0 | 62 | 1167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1D | 41 | -0 | 61 | -36 | 0 | 62 | 925 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.00 | 0.02 | 0.00 | 0.00 | 16.0 |
| 1E | 41 | -0 | -833 | 270 | 0 | 139 | 1167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1F | 41 | -0 | 61 | 270 | 0 | 139 | 925 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1G | 41 | -0 | -833 | -36 | 0 | 62 | 1167 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.51 | 0.04 | 0.24 | 0.00 | 0.00 | 16.0 |
| 1H | 41 | -0 | 61 | -36 | 0 | 62 | 925 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.00 | 0.02 | 0.00 | 0.00 | 16.0 |
| 1I | 41 | -0 | -1420 | 472 | 0 | 189 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.07 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1J | 41 | -0 | 648 | 472 | 0 | 189 | 767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1K | 41 | -0 | -1420 | -238 | 0 | 11 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.07 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1L | 41 | -0 | 648 | -238 | 0 | 11 | 767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1M | 41 | -0 | -1420 | 472 | 0 | 189 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.07 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1N | 41 | -0 | 648 | 472 | 0 | 189 | 767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1O | 41 | -0 | -1420 | -238 | 0 | 11 | 1325 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.07 | 0.42 | 0.00 | 0.00 | 16.0 |
| 1P | 41 | -0 | 648 | -238 | 0 | 11 | 767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 2 | 41 | -0 | -727 | 169 | 0 | 144 | 1739 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.76 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 62 | -0 | -1182 | 270 | 0 | 83 | 960 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1B | 62 | -0 | -289 | 270 | 0 | 83 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1C | 62 | -0 | -1182 | -36 | 0 | 69 | 960 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1D | 62 | -0 | -289 | -36 | 0 | 69 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1E | 62 | -0 | -1182 | 270 | 0 | 83 | 960 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1F | 62 | -0 | -289 | 270 | 0 | 83 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1G | 62 | -0 | -1182 | -36 | 0 | 69 | 960 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.42 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1H | 62 | -0 | -289 | -36 | 0 | 69 | 902 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.40 | 0.02 | 0.08 | 0.00 | 0.00 | 16.0 |
| 1I | 62 | -0 | -1769 | 472 | 0 | 92 | 998 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.09 | 0.52 | 0.00 | 0.00 | 16.0 |
| 1J | 62 | -0 | 298 | 472 | 0 | 92 | 864 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1K | 62 | -0 | -1769 | -238 | 0 | 60 | 998 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.09 | 0.52 | 0.00 | 0.00 | 16.0 |
| 1L | 62 | -0 | 298 | -238 | 0 | 60 | 864 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.09 | 0.00 | 0.00 | 16.0 |
| 1M | 62 | -0 | -1769 | 472 | 0 | 92 | 998 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.09 | 0.52 | 0.00 | 0.00 | 16.0 |
| 1N | 62 | -0 | 298 | 472 | 0 | 92 | 864 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1O | 62 | -0 | -1769 | -238 | 0 | 60 | 998 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.44 | 0.09 | 0.52 | 0.00 | 0.00 | 16.0 |
| 1P | 62 | -0 | 298 | -238 | 0 | 60 | 864 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.38 | 0.02 | 0.09 | 0.00 | 0.00 | 16.0 |
| 2 | 62 | -0 | -1302 | 169 | 0 | 109 | 1531 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.67 | 0.07 | 0.38 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 82 | -0 | -1532 | 270 | 0 | 28 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1B | 82 | -0 | -638 | 270 | 0 | 28 | 807 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1C | 82 | -0 | -1532 | -36 | 0 | 77 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1D | 82 | -0 | -638 | -36 | 0 | 77 | 807 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1E | 82 | -0 | -1532 | 270 | 0 | 28 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1F | 82 | -0 | -638 | 270 | 0 | 28 | 807 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1G | 82 | -0 | -1532 | -36 | 0 | 77 | 682 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1H | 82 | -0 | -638 | -36 | 0 | 77 | 807 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.35 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1I | 82 | -0 | -2119 | 472 | 0 | -4 | 599 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1J | 82 | -0 | -51 | 472 | 0 | -4 | 889 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.02 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1K | 82 | -0 | -2119 | -238 | 0 | 109 | 599 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1L | 82 | -0 | -51 | -238 | 0 | 109 | 889 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.01 | 0.09 | 0.00 | 0.00 | 16.0 |
| 1M | 82 | -0 | -2119 | 472 | 0 | -4 | 599 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1N | 82 | -0 | -51 | 472 | 0 | -4 | 889 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.02 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1O | 82 | -0 | -2119 | -238 | 0 | 109 | 599 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.11 | 0.62 | 0.00 | 0.00 | 16.0 |
| 1P | 82 | -0 | -51 | -238 | 0 | 109 | 889 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.39 | 0.01 | 0.09 | 0.00 | 0.00 | 16.0 |
| 2 | 82 | -0 | -1876 | 169 | 0 | 74 | 1205 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.53 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 103 | -0 | -1881 | 270 | 0 | -28 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1B | 103 | -0 | -988 | 270 | 0 | -28 | 640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1C | 103 | -0 | -1881 | -36 | 0 | 84 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1D | 103 | -0 | -988 | -36 | 0 | 84 | 640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1E | 103 | -0 | -1881 | 270 | 0 | -28 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1F | 103 | -0 | -988 | 270 | 0 | -28 | 640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1G | 103 | -0 | -1881 | -36 | 0 | 84 | 332 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.10 | 0.55 | 0.00 | 0.00 | 16.0 |
| 1H | 103 | -0 | -988 | -36 | 0 | 84 | 640 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1I | 103 | -0 | -2468 | 472 | 0 | -101 | 129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1J | 103 | -0 | -401 | 472 | 0 | -101 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.02 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1K | 103 | -0 | -2468 | -238 | 0 | 157 | 129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1L | 103 | -0 | -401 | -238 | 0 | 157 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1M | 103 | -0 | -2468 | 472 | 0 | -101 | 129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1N | 103 | -0 | -401 | 472 | 0 | -101 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.02 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1O | 103 | -0 | -2468 | -238 | 0 | 157 | 129 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1P | 103 | -0 | -401 | -238 | 0 | 157 | 843 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.37 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 2 | 103 | -0 | -2451 | 169 | 0 | 40 | 762 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.13 | 0.72 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 123 | -0 | -2231 | 270 | 0 | -83 | -90 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1B | 123 | -0 | -1337 | 270 | 0 | -83 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1C | 123 | -0 | -2231 | -36 | 0 | 91 | -90 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1D | 123 | -0 | -1337 | -36 | 0 | 91 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1E | 123 | -0 | -2231 | 270 | 0 | -83 | -90 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1F | 123 | -0 | -1337 | 270 | 0 | -83 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1G | 123 | -0 | -2231 | -36 | 0 | 91 | -90 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.12 | 0.65 | 0.00 | 0.00 | 16.0 |
| 1H | 123 | -0 | -1337 | -36 | 0 | 91 | 402 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.07 | 0.39 | 0.00 | 0.00 | 16.0 |
| 1I | 123 | -0 | -2818 | 472 | 0 | -198 | -413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1J | 123 | -0 | -750 | 472 | 0 | -198 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1K | 123 | -0 | -2818 | -238 | 0 | 206 | -413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1L | 123 | -0 | -750 | -238 | 0 | 206 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1M | 123 | -0 | -2818 | 472 | 0 | -198 | -413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1N | 123 | -0 | -750 | 472 | 0 | -198 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 1O | 123 | -0 | -2818 | -238 | 0 | 206 | -413 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.15 | 0.83 | 0.00 | 0.00 | 16.0 |
| 1P | 123 | -0 | -750 | -238 | 0 | 206 | 725 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |
| 2 | 123 | -0 | -3026 | 169 | 0 | 5 | 200 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.09 | 0.16 | 0.89 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 144 | -0 | -2580 | 270 | 0 | -139 | -583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1B | 144 | -0 | -1687 | 270 | 0 | -139 | 92 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1C | 144 | -0 | -2580 | -36 | 0 | 99 | -583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1D | 144 | -0 | -1687 | -36 | 0 | 99 | 92 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1E | 144 | -0 | -2580 | 270 | 0 | -139 | -583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1F | 144 | -0 | -1687 | 270 | 0 | -139 | 92 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1G | 144 | -0 | -2580 | -36 | 0 | 99 | -583 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1H | 144 | -0 | -1687 | -36 | 0 | 99 | 92 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.49 | 0.00 | 0.00 | 16.0 |
| 1I | 144 | -0 | -3167 | 472 | 0 | -295 | -1026 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.17 | 0.93 | 0.00 | 0.00 | 16.0 |
| 1J | 144 | -0 | -1100 | 472 | 0 | -295 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1K | 144 | -0 | -3167 | -238 | 0 | 255 | -1026 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.17 | 0.93 | 0.00 | 0.00 | 16.0 |
| 1L | 144 | -0 | -1100 | -238 | 0 | 255 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1M | 144 | -0 | -3167 | 472 | 0 | -295 | -1026 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.17 | 0.93 | 0.00 | 0.00 | 16.0 |
| 1N | 144 | -0 | -1100 | 472 | 0 | -295 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 1O | 144 | -0 | -3167 | -238 | 0 | 255 | -1026 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.17 | 0.93 | 0.00 | 0.00 | 16.0 |
| 1P | 144 | -0 | -1100 | -238 | 0 | 255 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.06 | 0.32 | 0.00 | 0.00 | 16.0 |
| 2 | 144 | -0 | -3601 | 169 | 0 | -29 | -479 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.21 | 0.19 | 1.06 | 5.02 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 164 | -0 | -2930 | 270 | 0 | -194 | -1148 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1B | 164 | -0 | -2036 | 270 | 0 | -194 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1C | 164 | -0 | -2930 | -36 | 0 | 106 | -1148 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1D | 164 | -0 | -2036 | -36 | 0 | 106 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1E | 164 | -0 | -2930 | 270 | 0 | -194 | -1148 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1F | 164 | -0 | -2036 | 270 | 0 | -194 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1G | 164 | -0 | -2930 | -36 | 0 | 106 | -1148 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.50 | 0.15 | 0.86 | 0.00 | 0.00 | 16.0 |
| 1H | 164 | -0 | -2036 | -36 | 0 | 106 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1I | 164 | -0 | -3517 | 472 | 0 | -391 | -1711 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.75 | 0.18 | 1.03 | 4.91 | 0.00 | 16.0 |
| 1J | 164 | -0 | -1449 | 472 | 0 | -391 | 274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1K | 164 | -0 | -3517 | -238 | 0 | 304 | -1711 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.75 | 0.18 | 1.03 | 4.91 | 0.00 | 16.0 |
| 1L | 164 | -0 | -1449 | -238 | 0 | 304 | 274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1M | 164 | -0 | -3517 | 472 | 0 | -391 | -1711 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.75 | 0.18 | 1.03 | 4.91 | 0.00 | 16.0 |
| 1N | 164 | -0 | -1449 | 472 | 0 | -391 | 274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 1O | 164 | -0 | -3517 | -238 | 0 | 304 | -1711 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.75 | 0.18 | 1.03 | 4.91 | 0.00 | 16.0 |
| 1P | 164 | -0 | -1449 | -238 | 0 | 304 | 274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.12 | 0.08 | 0.43 | 0.00 | 0.00 | 16.0 |
| 2 | 164 | -0 | -4175 | 169 | 0 | -64 | -1276 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.22 | 1.22 | 5.82 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 185 | -0 | -3279 | 270 | 0 | -249 | -1784 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.17 | 0.96 | 0.00 | 0.00 | 5.0 |
| 1B | 185 | -0 | -2386 | 270 | 0 | -249 | -743 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.13 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1C | 185 | -0 | -3279 | -36 | 0 | 114 | -1784 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.17 | 0.96 | 0.00 | 0.00 | 5.0 |
| 1D | 185 | -0 | -2386 | -36 | 0 | 114 | -743 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.13 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1E | 185 | -0 | -3279 | 270 | 0 | -249 | -1784 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.17 | 0.96 | 0.00 | 0.00 | 5.0 |
| 1F | 185 | -0 | -2386 | 270 | 0 | -249 | -743 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.13 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1G | 185 | -0 | -3279 | -36 | 0 | 114 | -1784 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.78 | 0.17 | 0.96 | 0.00 | 0.00 | 5.0 |
| 1H | 185 | -0 | -2386 | -36 | 0 | 114 | -743 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.33 | 0.13 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1I | 185 | -0 | -3866 | 472 | 0 | -488 | -2468 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.73 | 0.20 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1J | 185 | -0 | -1799 | 472 | 0 | -488 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.09 | 0.53 | 0.00 | 0.00 | 5.0 |
| 1K | 185 | -0 | -3866 | -238 | 0 | 352 | -2468 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.73 | 0.20 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1L | 185 | -0 | -1799 | -238 | 0 | 352 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.09 | 0.53 | 0.00 | 0.00 | 5.0 |
| 1M | 185 | -0 | -3866 | 472 | 0 | -488 | -2468 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.73 | 0.20 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1N | 185 | -0 | -1799 | 472 | 0 | -488 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.15 | 0.09 | 0.53 | 0.00 | 0.00 | 5.0 |
| 1O | 185 | -0 | -3866 | -238 | 0 | 352 | -2468 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.73 | 0.20 | 0.99 | 0.00 | 0.00 | 5.0 |
| 1P | 185 | -0 | -1799 | -238 | 0 | 352 | -59 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.09 | 0.53 | 0.00 | 0.00 | 5.0 |
| 2 | 185 | -0 | -4750 | 169 | 0 | -98 | -2190 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.96 | 0.25 | 1.39 | 6.63 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 205 | -0 | -3629 | 270 | 0 | -305 | -2492 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.74 | 0.19 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1B | 205 | -0 | -2735 | 270 | 0 | -305 | -1268 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1C | 205 | -0 | -3629 | -36 | 0 | 121 | -2492 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.74 | 0.19 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1D | 205 | -0 | -2735 | -36 | 0 | 121 | -1268 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1E | 205 | -0 | -3629 | 270 | 0 | -305 | -2492 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.74 | 0.19 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1F | 205 | -0 | -2735 | 270 | 0 | -305 | -1268 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1G | 205 | -0 | -3629 | -36 | 0 | 121 | -2492 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.74 | 0.19 | 0.93 | 0.00 | 0.00 | 5.0 |
| 1H | 205 | -0 | -2735 | -36 | 0 | 121 | -1268 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.56 | 0.14 | 0.80 | 0.00 | 0.00 | 5.0 |
| 1I | 205 | -0 | -4216 | 472 | 0 | -585 | -3297 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.98 | 0.22 | 1.08 | 5.88 | 0.00 | 5.0 |
| 1J | 205 | -0 | -2148 | 472 | 0 | -585 | -463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.11 | 0.63 | 0.00 | 0.00 | 5.0 |
| 1K | 205 | -0 | -4216 | -238 | 0 | 401 | -3297 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.98 | 0.22 | 1.08 | 5.88 | 0.00 | 5.0 |
| 1L | 205 | -0 | -2148 | -238 | 0 | 401 | -463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.11 | 0.63 | 0.00 | 0.00 | 5.0 |
| 1M | 205 | -0 | -4216 | 472 | 0 | -585 | -3297 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.98 | 0.22 | 1.08 | 5.88 | 0.00 | 5.0 |
| 1N | 205 | -0 | -2148 | 472 | 0 | -585 | -463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.11 | 0.63 | 0.00 | 0.00 | 5.0 |
| 1O | 205 | -0 | -4216 | -238 | 0 | 401 | -3297 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.98 | 0.22 | 1.08 | 5.88 | 0.00 | 5.0 |
| 1P | 205 | -0 | -2148 | -238 | 0 | 401 | -463 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.11 | 0.63 | 0.00 | 0.00 | 5.0 |
| 2 | 205 | -0 | -5325 | 169 | 0 | -133 | -3223 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.96 | 0.28 | 1.36 | 7.43 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= 1.54 staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 21**  NI 6858  NF 6683  SEZ.  Rp  B= 30.0  H= 22.0  (trave)

categoria: p.p. y Permanente Congresso qy tot.
qy medio:  1.6500  17.0170    15.2592  33.9262  kg/cm

armatura base = 4 X 1.54     per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | 3306 | 282 | 0 | 187 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1B | 0 | -0 | 3644 | 282 | 0 | 187 | -1744 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.08 | 0.00 | 5.0 |
| 1C | 0 | -0 | 3306 | -131 | 0 | -140 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1D | 0 | -0 | 3644 | -131 | 0 | -140 | -1744 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.08 | 0.00 | 5.0 |
| 1E | 0 | -0 | 3306 | 282 | 0 | 187 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1F | 0 | -0 | 3644 | 282 | 0 | 187 | -1744 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.08 | 0.00 | 5.0 |
| 1G | 0 | -0 | 3306 | -131 | 0 | -140 | -1346 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.59 | 0.17 | 0.97 | 0.00 | 0.00 | 5.0 |
| 1H | 0 | -0 | 3644 | -131 | 0 | -140 | -1744 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.77 | 0.19 | 1.07 | 5.08 | 0.00 | 5.0 |
| 1I | 0 | -0 | 3084 | 553 | 0 | 401 | -1084 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1J | 0 | -0 | 3866 | 553 | 0 | 401 | -2006 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.20 | 1.13 | 5.39 | 0.00 | 5.0 |
| 1K | 0 | -0 | 3084 | -402 | 0 | -354 | -1084 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1L | 0 | -0 | 3866 | -402 | 0 | -354 | -2006 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.20 | 1.13 | 5.39 | 0.00 | 5.0 |
| 1M | 0 | -0 | 3084 | 553 | 0 | 401 | -1084 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1N | 0 | -0 | 3866 | 553 | 0 | 401 | -2006 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.20 | 1.13 | 5.39 | 0.00 | 5.0 |
| 1O | 0 | -0 | 3084 | -402 | 0 | -354 | -1084 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.90 | 0.00 | 0.00 | 5.0 |
| 1P | 0 | -0 | 3866 | -402 | 0 | -354 | -2006 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.88 | 0.20 | 1.13 | 5.39 | 0.00 | 5.0 |
| 2 | 0 | -0 | 6006 | 112 | 0 | 35 | -2755 | 3.08 | 3.08 | 3.08 | 4.62 | 0.19 | 0.82 | 0.32 | 1.54 | 8.38 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= 1.54 staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | | | |
| 1A | 19 | -0 | 2777 | 282 | 0 | 133 | -767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1B | 19 | -0 | 3115 | 282 | 0 | 133 | -1102 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1C | 19 | -0 | 2777 | -131 | 0 | -115 | -767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1D | 19 | -0 | 3115 | -131 | 0 | -115 | -1102 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1E | 19 | -0 | 2777 | 282 | 0 | 133 | -767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1F | 19 | -0 | 3115 | 282 | 0 | 133 | -1102 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1G | 19 | -0 | 2777 | -131 | 0 | -115 | -767 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.34 | 0.15 | 0.81 | 0.00 | 0.00 | 5.0 |
| 1H | 19 | -0 | 3115 | -131 | 0 | -115 | -1102 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.48 | 0.16 | 0.91 | 0.00 | 0.00 | 5.0 |
| 1I | 19 | -0 | 2556 | 553 | 0 | 296 | -548 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1J | 19 | -0 | 3337 | 553 | 0 | 296 | -1322 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1K | 19 | -0 | 2556 | -402 | 0 | -277 | -548 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1L | 19 | -0 | 3337 | -402 | 0 | -277 | -1322 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1M | 19 | -0 | 2556 | 553 | 0 | 296 | -548 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1N | 19 | -0 | 3337 | 553 | 0 | 296 | -1322 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 1O | 19 | -0 | 2556 | -402 | 0 | -277 | -548 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.13 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1P | 19 | -0 | 3337 | -402 | 0 | -277 | -1322 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.58 | 0.18 | 0.98 | 0.00 | 0.00 | 5.0 |
| 2 | 19 | -0 | 5110 | 112 | 0 | 14 | -1699 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.75 | 0.27 | 1.50 | 7.13 | 0.00 | 5.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 38 | -0 | 2248 | 282 | 0 | 80 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1B | 38 | -0 | 2586 | 282 | 0 | 80 | -560 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1C | 38 | -0 | 2248 | -131 | 0 | -90 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1D | 38 | -0 | 2586 | -131 | 0 | -90 | -560 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1E | 38 | -0 | 2248 | 282 | 0 | 80 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1F | 38 | -0 | 2586 | 282 | 0 | 80 | -560 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1G | 38 | -0 | 2248 | -131 | 0 | -90 | -290 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.66 | 0.00 | 0.00 | 16.0 |
| 1H | 38 | -0 | 2586 | -131 | 0 | -90 | -560 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.14 | 0.76 | 0.00 | 0.00 | 16.0 |
| 1I | 38 | -0 | 2027 | 553 | 0 | 191 | -112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1J | 38 | -0 | 2808 | 553 | 0 | 191 | -738 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 1K | 38 | -0 | 2027 | -402 | 0 | -201 | -112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1L | 38 | -0 | 2808 | -402 | 0 | -201 | -738 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 1M | 38 | -0 | 2027 | 553 | 0 | 191 | -112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1N | 38 | -0 | 2808 | 553 | 0 | 191 | -738 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 1O | 38 | -0 | 2027 | -402 | 0 | -201 | -112 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.11 | 0.59 | 0.00 | 0.00 | 16.0 |
| 1P | 38 | -0 | 2808 | -402 | 0 | -201 | -738 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.32 | 0.15 | 0.82 | 0.00 | 0.00 | 16.0 |
| 2 | 38 | -0 | 4213 | 112 | 0 | -8 | -813 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.22 | 1.24 | 5.88 | 0.00 | 16.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 57 | -0 | 1720 | 282 | 0 | 26 | 87 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1B | 57 | -0 | 2057 | 282 | 0 | 26 | -119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1C | 57 | -0 | 1720 | -131 | 0 | -65 | 87 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1D | 57 | -0 | 2057 | -131 | 0 | -65 | -119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1E | 57 | -0 | 1720 | 282 | 0 | 26 | 87 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1F | 57 | -0 | 2057 | 282 | 0 | 26 | -119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1G | 57 | -0 | 1720 | -131 | 0 | -65 | 87 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.09 | 0.50 | 0.00 | 0.00 | 16.0 |
| 1H | 57 | -0 | 2057 | -131 | 0 | -65 | -119 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.05 | 0.11 | 0.60 | 0.00 | 0.00 | 16.0 |
| 1I | 57 | -0 | 1498 | 553 | 0 | 86 | 223 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1J | 57 | -0 | 2279 | 553 | 0 | 86 | -254 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1K | 57 | -0 | 1498 | -402 | 0 | -125 | 223 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1L | 57 | -0 | 2279 | -402 | 0 | -125 | -254 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1M | 57 | -0 | 1498 | 553 | 0 | 86 | 223 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1N | 57 | -0 | 2279 | 553 | 0 | 86 | -254 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 1O | 57 | -0 | 1498 | -402 | 0 | -125 | 223 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.44 | 0.00 | 0.00 | 16.0 |
| 1P | 57 | -0 | 2279 | -402 | 0 | -125 | -254 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.12 | 0.67 | 0.00 | 0.00 | 16.0 |
| 2 | 57 | -0 | 3317 | 112 | 0 | -29 | -97 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.17 | 0.97 | 0.00 | 0.00 | 16.0 |
| apost= -- | | aant= -- | | ainf= -- | | asup= -- | | staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 ) | | | | | | | | | | |
| 1A | 76 | -0 | 1191 | 282 | 0 | -27 | 364 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1B | 76 | -0 | 1528 | 282 | 0 | -27 | 222 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1C | 76 | -0 | 1191 | -131 | 0 | -40 | 364 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1D | 76 | -0 | 1528 | -131 | 0 | -40 | 222 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1E | 76 | -0 | 1191 | 282 | 0 | -27 | 364 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1F | 76 | -0 | 1528 | 282 | 0 | -27 | 222 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1G | 76 | -0 | 1191 | -131 | 0 | -40 | 364 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.16 | 0.06 | 0.35 | 0.00 | 0.00 | 16.0 |
| 1H | 76 | -0 | 1528 | -131 | 0 | -40 | 222 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1I | 76 | -0 | 969 | 553 | 0 | -19 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1J | 76 | -0 | 1750 | 553 | 0 | -19 | 128 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1K | 76 | -0 | 969 | -402 | 0 | -48 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1L | 76 | -0 | 1750 | -402 | 0 | -48 | 128 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1M | 76 | -0 | 969 | 553 | 0 | -19 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1N | 76 | -0 | 1750 | 553 | 0 | -19 | 128 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 1O | 76 | -0 | 969 | -402 | 0 | -48 | 457 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.28 | 0.00 | 0.00 | 16.0 |
| 1P | 76 | -0 | 1750 | -402 | 0 | -48 | 128 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.09 | 0.51 | 0.00 | 0.00 | 16.0 |
| 2 | 76 | -0 | 2420 | 112 | 0 | -50 | 448 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.13 | 0.71 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 95 | -0 | 662 | 282 | 0 | -81 | 540 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1B | 95 | -0 | 999 | 282 | 0 | -81 | 462 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1C | 95 | -0 | 662 | -131 | 0 | -15 | 540 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1D | 95 | -0 | 999 | -131 | 0 | -15 | 462 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1E | 95 | -0 | 662 | 282 | 0 | -81 | 540 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1F | 95 | -0 | 999 | 282 | 0 | -81 | 462 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1G | 95 | -0 | 662 | -131 | 0 | -15 | 540 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.19 | 0.00 | 0.00 | 16.0 |
| 1H | 95 | -0 | 999 | -131 | 0 | -15 | 462 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.29 | 0.00 | 0.00 | 16.0 |
| 1I | 95 | -0 | 440 | 553 | 0 | -124 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1J | 95 | -0 | 1221 | 553 | 0 | -124 | 411 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1K | 95 | -0 | 440 | -402 | 0 | 28 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1L | 95 | -0 | 1221 | -402 | 0 | 28 | 411 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1M | 95 | -0 | 440 | 553 | 0 | -124 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1N | 95 | -0 | 1221 | 553 | 0 | -124 | 411 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 1O | 95 | -0 | 440 | -402 | 0 | 28 | 591 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1P | 95 | -0 | 1221 | -402 | 0 | 28 | 411 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.36 | 0.00 | 0.00 | 16.0 |
| 2 | 95 | -0 | 1524 | 112 | 0 | -71 | 823 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.36 | 0.08 | 0.45 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 114 | -0 | 133 | 282 | 0 | -134 | 615 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1B | 114 | -0 | 470 | 282 | 0 | -134 | 602 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1C | 114 | -0 | 133 | -131 | 0 | 10 | 615 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.05 | 0.00 | 0.00 | 16.0 |
| 1D | 114 | -0 | 470 | -131 | 0 | 10 | 602 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1E | 114 | -0 | 133 | 282 | 0 | -134 | 615 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1F | 114 | -0 | 470 | 282 | 0 | -134 | 602 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1G | 114 | -0 | 133 | -131 | 0 | 10 | 615 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.01 | 0.05 | 0.00 | 0.00 | 16.0 |
| 1H | 114 | -0 | 470 | -131 | 0 | 10 | 602 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.14 | 0.00 | 0.00 | 16.0 |
| 1I | 114 | -0 | -89 | 553 | 0 | -229 | 624 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1J | 114 | -0 | 692 | 553 | 0 | -229 | 592 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1K | 114 | -0 | -89 | -402 | 0 | 105 | 624 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1L | 114 | -0 | 692 | -402 | 0 | 105 | 592 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1M | 114 | -0 | -89 | 553 | 0 | -229 | 624 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1N | 114 | -0 | 692 | 553 | 0 | -229 | 592 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1O | 114 | -0 | -89 | -402 | 0 | 105 | 624 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1P | 114 | -0 | 692 | -402 | 0 | 105 | 592 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |
| 2 | 114 | -0 | 628 | 112 | 0 | -93 | 1028 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.45 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 133 | -0 | -396 | 282 | 0 | -188 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1B | 133 | -0 | -59 | 282 | 0 | -188 | 641 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1C | 133 | -0 | -396 | -131 | 0 | 35 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1D | 133 | -0 | -59 | -131 | 0 | 35 | 641 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.05 | 0.00 | 0.00 | 16.0 |
| 1E | 133 | -0 | -396 | 282 | 0 | -188 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1F | 133 | -0 | -59 | 282 | 0 | -188 | 641 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.10 | 0.00 | 0.00 | 16.0 |
| 1G | 133 | -0 | -396 | -131 | 0 | 35 | 590 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.26 | 0.02 | 0.12 | 0.00 | 0.00 | 16.0 |
| 1H | 133 | -0 | -59 | -131 | 0 | 35 | 641 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.28 | 0.01 | 0.05 | 0.00 | 0.00 | 16.0 |
| 1I | 133 | -0 | -618 | 553 | 0 | -334 | 557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1J | 133 | -0 | 163 | 553 | 0 | -334 | 674 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1K | 133 | -0 | -618 | -402 | 0 | 181 | 557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1L | 133 | -0 | 163 | -402 | 0 | 181 | 674 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1M | 133 | -0 | -618 | 553 | 0 | -334 | 557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1N | 133 | -0 | 163 | 553 | 0 | -334 | 674 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1O | 133 | -0 | -618 | -402 | 0 | 181 | 557 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.24 | 0.03 | 0.18 | 0.00 | 0.00 | 16.0 |
| 1P | 133 | -0 | 163 | -402 | 0 | 181 | 674 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.30 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 2 | 133 | -0 | -269 | 112 | 0 | -114 | 1062 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.47 | 0.01 | 0.08 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 152 | -0 | -925 | 282 | 0 | -242 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1B | 152 | -0 | -587 | 282 | 0 | -242 | 579 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1C | 152 | -0 | -925 | -131 | 0 | 60 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1D | 152 | -0 | -587 | -131 | 0 | 60 | 579 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1E | 152 | -0 | -925 | 282 | 0 | -242 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1F | 152 | -0 | -587 | 282 | 0 | -242 | 579 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1G | 152 | -0 | -925 | -131 | 0 | 60 | 465 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.05 | 0.27 | 0.00 | 0.00 | 16.0 |
| 1H | 152 | -0 | -587 | -131 | 0 | 60 | 579 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.25 | 0.03 | 0.17 | 0.00 | 0.00 | 16.0 |
| 1I | 152 | -0 | -1147 | 553 | 0 | -440 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1J | 152 | -0 | -366 | 553 | 0 | -440 | 654 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1K | 152 | -0 | -1147 | -402 | 0 | 258 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1L | 152 | -0 | -366 | -402 | 0 | 258 | 654 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 1M | 152 | -0 | -1147 | 553 | 0 | -440 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1N | 152 | -0 | -366 | 553 | 0 | -440 | 654 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.03 | 0.20 | 0.00 | 0.00 | 16.0 |
| 1O | 152 | -0 | -1147 | -402 | 0 | 258 | 389 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |
| 1P | 152 | -0 | -366 | -402 | 0 | 258 | 654 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.29 | 0.02 | 0.15 | 0.00 | 0.00 | 16.0 |
| 2 | 152 | -0 | -1165 | 112 | 0 | -135 | 925 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.41 | 0.06 | 0.34 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 171 | -0 | -1454 | 282 | 0 | -295 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1B | 171 | -0 | -1116 | 282 | 0 | -295 | 417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.33 | 0.00 | 0.00 | 5.0 |
| 1C | 171 | -0 | -1454 | -131 | 0 | 85 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1D | 171 | -0 | -1116 | -131 | 0 | 85 | 417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.33 | 0.00 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1E | 171 | -0 | -1454 | 282 | 0 | -295 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1F | 171 | -0 | -1116 | 282 | 0 | -295 | 417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.33 | 0.00 | 0.00 | 5.0 |
| 1G | 171 | -0 | -1454 | -131 | 0 | 85 | 238 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.08 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1H | 171 | -0 | -1116 | -131 | 0 | 85 | 417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.18 | 0.06 | 0.33 | 0.00 | 0.00 | 5.0 |
| 1I | 171 | -0 | -1676 | 553 | 0 | -545 | 121 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 5.0 |
| 1J | 171 | -0 | -895 | 553 | 0 | -545 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1K | 171 | -0 | -1676 | -402 | 0 | 334 | 121 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.09 | 0.49 | 0.00 | 0.00 | 5.0 |
| 1L | 171 | -0 | -895 | -402 | 0 | 334 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1M | 171 | -0 | -1676 | 553 | 0 | -545 | 121 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.17 | 0.09 | 0.49 | 0.00 | 0.00 | 5.0 |
| 1N | 171 | -0 | -895 | 553 | 0 | -545 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 1O | 171 | -0 | -1676 | -402 | 0 | 334 | 121 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.10 | 0.09 | 0.49 | 0.00 | 0.00 | 5.0 |
| 1P | 171 | -0 | -895 | -402 | 0 | 334 | 535 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.23 | 0.05 | 0.26 | 0.00 | 0.00 | 5.0 |
| 2 | 171 | -0 | -2062 | 112 | 0 | -156 | 619 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.27 | 0.11 | 0.60 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 190 | -0 | -1983 | 282 | 0 | -349 | -88 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1B | 190 | -0 | -1645 | 282 | 0 | -349 | 155 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.09 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1C | 190 | -0 | -1983 | -131 | 0 | 110 | -88 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1D | 190 | -0 | -1645 | -131 | 0 | 110 | 155 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.09 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1E | 190 | -0 | -1983 | 282 | 0 | -349 | -88 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1F | 190 | -0 | -1645 | 282 | 0 | -349 | 155 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.11 | 0.09 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1G | 190 | -0 | -1983 | -131 | 0 | 110 | -88 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.04 | 0.10 | 0.58 | 0.00 | 0.00 | 5.0 |
| 1H | 190 | -0 | -1645 | -131 | 0 | 110 | 155 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.07 | 0.09 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1I | 190 | -0 | -2205 | 553 | 0 | -650 | -248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.12 | 0.65 | 0.00 | 0.00 | 5.0 |
| 1J | 190 | -0 | -1423 | 553 | 0 | -650 | 314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.07 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1K | 190 | -0 | -2205 | -402 | 0 | 411 | -248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.65 | 0.00 | 0.00 | 5.0 |
| 1L | 190 | -0 | -1423 | -402 | 0 | 411 | 314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.07 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1M | 190 | -0 | -2205 | 553 | 0 | -650 | -248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.12 | 0.65 | 0.00 | 0.00 | 5.0 |
| 1N | 190 | -0 | -1423 | 553 | 0 | -650 | 314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.20 | 0.07 | 0.42 | 0.00 | 0.00 | 5.0 |
| 1O | 190 | -0 | -2205 | -402 | 0 | 411 | -248 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.13 | 0.12 | 0.65 | 0.00 | 0.00 | 5.0 |
| 1P | 190 | -0 | -1423 | -402 | 0 | 411 | 314 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.14 | 0.07 | 0.42 | 0.00 | 0.00 | 5.0 |
| 2 | 190 | -0 | -2958 | 112 | 0 | -178 | 142 | 3.08 | 3.08 | 3.08 | 3.08 | 0.15 | 0.06 | 0.16 | 0.87 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

**ASTA NUM. 22**  NI 6906  NF 6903  SEZ.  Rp  B= 20.0  H= 22.0  (trave)

categoria: p.p. y qy tot.
qy medio:  1.1000  1.1000  kg/cm

armatura base = 4 X 1.54  per le armature aggiuntive consultare il tabulato

| NC | x | Fx | Fy | Fz | Mx | My | Mz | APOST | AANT | AINF | ASUP | x/d | Indice | resistenza | | aswta | aswto | PASSO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | | | | | | | | | | | |
| | cm | | kg | | | kg*m | | | | cmq | | | Fx,M | Bielle | V,Mx | | cmq/m | cm |
| 1A | 0 | -0 | -1831 | 109 | 0 | 60 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.45 | 0.14 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1B | 0 | -0 | 1253 | 109 | 0 | 60 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1C | 0 | -0 | -1831 | -144 | 0 | -86 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.45 | 0.14 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1D | 0 | -0 | 1253 | -144 | 0 | -86 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1E | 0 | -0 | -1831 | 109 | 0 | 60 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.45 | 0.14 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1F | 0 | -0 | 1253 | 109 | 0 | 60 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1G | 0 | -0 | -1831 | -144 | 0 | -86 | 1018 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.45 | 0.14 | 0.70 | 0.00 | 0.00 | 5.0 |
| 1H | 0 | -0 | 1253 | -144 | 0 | -86 | -667 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.30 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1I | 0 | -0 | -3857 | 275 | 0 | 155 | 2125 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.94 | 0.30 | 1.48 | 5.38 | 0.00 | 5.0 |
| 1J | 0 | -0 | 3278 | 275 | 0 | 155 | -1774 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.79 | 0.26 | 1.26 | 4.57 | 0.00 | 5.0 |
| 1K | 0 | -0 | -3857 | -310 | 0 | -181 | 2125 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.94 | 0.30 | 1.48 | 5.38 | 0.00 | 5.0 |
| 1L | 0 | -0 | 3278 | -310 | 0 | -181 | -1774 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.79 | 0.26 | 1.26 | 4.57 | 0.00 | 5.0 |
| 1M | 0 | -0 | -3857 | 275 | 0 | 155 | 2125 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.94 | 0.30 | 1.48 | 5.38 | 0.00 | 5.0 |
| 1N | 0 | -0 | 3278 | 275 | 0 | 155 | -1774 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.79 | 0.26 | 1.26 | 4.57 | 0.00 | 5.0 |
| 1O | 0 | -0 | -3857 | -310 | 0 | -181 | 2125 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.94 | 0.30 | 1.48 | 5.38 | 0.00 | 5.0 |
| 1P | 0 | -0 | 3278 | -310 | 0 | -181 | -1774 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.79 | 0.26 | 1.26 | 4.57 | 0.00 | 5.0 |
| 2 | 0 | -0 | -467 | -39 | 0 | -27 | 276 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.04 | 0.18 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 11 | -0 | -1843 | 109 | 0 | 48 | 816 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.36 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1B | 11 | -0 | 1240 | 109 | 0 | 48 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.24 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1C | 11 | -0 | -1843 | -144 | 0 | -70 | 816 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.36 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1D | 11 | -0 | 1240 | -144 | 0 | -70 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.24 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1E | 11 | -0 | -1843 | 109 | 0 | 48 | 816 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.36 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1F | 11 | -0 | 1240 | 109 | 0 | 48 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.24 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1G | 11 | -0 | -1843 | -144 | 0 | -70 | 816 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.36 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1H | 11 | -0 | 1240 | -144 | 0 | -70 | -530 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.24 | 0.10 | 0.48 | 0.00 | 0.00 | 5.0 |
| 1I | 11 | -0 | -3869 | 275 | 0 | 125 | 1701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.75 | 0.30 | 1.49 | 5.40 | 0.00 | 5.0 |
| 1J | 11 | -0 | 3266 | 275 | 0 | 125 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.26 | 1.26 | 4.56 | 0.00 | 5.0 |
| 1K | 11 | -0 | -3869 | -310 | 0 | -147 | 1701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.75 | 0.30 | 1.49 | 5.40 | 0.00 | 5.0 |
| 1L | 11 | -0 | 3266 | -310 | 0 | -147 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.26 | 1.26 | 4.56 | 0.00 | 5.0 |
| 1M | 11 | -0 | -3869 | 275 | 0 | 125 | 1701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.75 | 0.30 | 1.49 | 5.40 | 0.00 | 5.0 |
| 1N | 11 | -0 | 3266 | 275 | 0 | 125 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.26 | 1.26 | 4.56 | 0.00 | 5.0 |
| 1O | 11 | -0 | -3869 | -310 | 0 | -147 | 1701 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.75 | 0.30 | 1.49 | 5.40 | 0.00 | 5.0 |
| 1P | 11 | -0 | 3266 | -310 | 0 | -147 | -1415 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.26 | 1.26 | 4.56 | 0.00 | 5.0 |
| 2 | 11 | -0 | -482 | -39 | 0 | -22 | 223 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 22 | -0 | -1855 | 109 | 0 | 36 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1B | 22 | -0 | 1228 | 109 | 0 | 36 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.10 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1C | 22 | -0 | -1855 | -144 | 0 | -54 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1D | 22 | -0 | 1228 | -144 | 0 | -54 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.10 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1E | 22 | -0 | -1855 | 109 | 0 | 36 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1F | 22 | -0 | 1228 | 109 | 0 | 36 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.10 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1G | 22 | -0 | -1855 | -144 | 0 | -54 | 613 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.27 | 0.15 | 0.71 | 0.00 | 0.00 | 5.0 |
| 1H | 22 | -0 | 1228 | -144 | 0 | -54 | -394 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.10 | 0.47 | 0.00 | 0.00 | 5.0 |
| 1I | 22 | -0 | -3881 | 275 | 0 | 94 | 1274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.57 | 0.31 | 1.49 | 5.41 | 0.00 | 5.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1J | 22 | -0 | 3254 | 275 | 0 | 94 | -1056 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.26 | 1.25 | 4.54 | 0.00 | 5.0 |
| 1K | 22 | -0 | -3881 | -310 | 0 | -113 | 1274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.57 | 0.31 | 1.49 | 5.41 | 0.00 | 5.0 |
| 1L | 22 | -0 | 3254 | -310 | 0 | -113 | -1056 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.47 | 0.26 | 1.25 | 4.54 | 0.00 | 5.0 |
| 1M | 22 | -0 | -3881 | 275 | 0 | 94 | 1274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.57 | 0.31 | 1.49 | 5.41 | 0.00 | 5.0 |
| 1N | 22 | -0 | 3254 | 275 | 0 | 94 | -1056 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.26 | 1.25 | 4.54 | 0.00 | 5.0 |
| 1O | 22 | -0 | -3881 | -310 | 0 | -113 | 1274 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.57 | 0.31 | 1.49 | 5.41 | 0.00 | 5.0 |
| 1P | 22 | -0 | 3254 | -310 | 0 | -113 | -1056 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.47 | 0.26 | 1.25 | 4.54 | 0.00 | 5.0 |
| 2 | 22 | -0 | -498 | -39 | 0 | -18 | 169 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.04 | 0.19 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 33 | -0 | -1867 | 109 | 0 | 24 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1B | 33 | -0 | 1216 | 109 | 0 | 24 | -260 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.10 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1C | 33 | -0 | -1867 | -144 | 0 | -38 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1D | 33 | -0 | 1216 | -144 | 0 | -38 | -260 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.10 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1E | 33 | -0 | -1867 | 109 | 0 | 24 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1F | 33 | -0 | 1216 | 109 | 0 | 24 | -260 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.10 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1G | 33 | -0 | -1867 | -144 | 0 | -38 | 408 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.18 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1H | 33 | -0 | 1216 | -144 | 0 | -38 | -260 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.10 | 0.47 | 0.00 | 0.00 | 16.0 |
| 1I | 33 | -0 | -3893 | 275 | 0 | 64 | 847 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.31 | 1.50 | 5.43 | 0.00 | 16.0 |
| 1J | 33 | -0 | 3242 | 275 | 0 | 64 | -699 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.26 | 1.25 | 4.52 | 0.00 | 16.0 |
| 1K | 33 | -0 | -3893 | -310 | 0 | -78 | 847 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.31 | 1.50 | 5.43 | 0.00 | 16.0 |
| 1L | 33 | -0 | 3242 | -310 | 0 | -78 | -699 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.26 | 1.25 | 4.52 | 0.00 | 16.0 |
| 1M | 33 | -0 | -3893 | 275 | 0 | 64 | 847 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.31 | 1.50 | 5.43 | 0.00 | 16.0 |
| 1N | 33 | -0 | 3242 | 275 | 0 | 64 | -699 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.26 | 1.25 | 4.52 | 0.00 | 16.0 |
| 1O | 33 | -0 | -3893 | -310 | 0 | -78 | 847 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.31 | 1.50 | 5.43 | 0.00 | 16.0 |
| 1P | 33 | -0 | 3242 | -310 | 0 | -78 | -699 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.31 | 0.26 | 1.25 | 4.52 | 0.00 | 16.0 |
| 2 | 33 | -0 | -514 | -39 | 0 | -14 | 114 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.05 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 44 | -0 | -1879 | 109 | 0 | 12 | 202 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1B | 44 | -0 | 1204 | 109 | 0 | 12 | -127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1C | 44 | -0 | -1879 | -144 | 0 | -22 | 202 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1D | 44 | -0 | 1204 | -144 | 0 | -22 | -127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1E | 44 | -0 | -1879 | 109 | 0 | 12 | 202 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1F | 44 | -0 | 1204 | 109 | 0 | 12 | -127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1G | 44 | -0 | -1879 | -144 | 0 | -22 | 202 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.09 | 0.15 | 0.72 | 0.00 | 0.00 | 16.0 |
| 1H | 44 | -0 | 1204 | -144 | 0 | -22 | -127 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1I | 44 | -0 | -3905 | 275 | 0 | 34 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.31 | 1.50 | 5.45 | 0.00 | 16.0 |
| 1J | 44 | -0 | 3230 | 275 | 0 | 34 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.25 | 1.24 | 4.51 | 0.00 | 16.0 |
| 1K | 44 | -0 | -3905 | -310 | 0 | -44 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.31 | 1.50 | 5.45 | 0.00 | 16.0 |
| 1L | 44 | -0 | 3230 | -310 | 0 | -44 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.25 | 1.24 | 4.51 | 0.00 | 16.0 |
| 1M | 44 | -0 | -3905 | 275 | 0 | 34 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.31 | 1.50 | 5.45 | 0.00 | 16.0 |
| 1N | 44 | -0 | 3230 | 275 | 0 | 34 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.25 | 1.24 | 4.51 | 0.00 | 16.0 |
| 1O | 44 | -0 | -3905 | -310 | 0 | -44 | 418 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.31 | 1.50 | 5.45 | 0.00 | 16.0 |
| 1P | 44 | -0 | 3230 | -310 | 0 | -44 | -343 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.15 | 0.25 | 1.24 | 4.51 | 0.00 | 16.0 |
| 2 | 44 | -0 | -530 | -39 | 0 | -10 | 56 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.03 | 0.04 | 0.20 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 55 | -0 | -1891 | 109 | 0 | -0 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1B | 55 | -0 | 1192 | 109 | 0 | -0 | 5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1C | 55 | -0 | -1891 | -144 | 0 | -6 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1D | 55 | -0 | 1192 | -144 | 0 | -6 | 5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1E | 55 | -0 | -1891 | 109 | 0 | -0 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1F | 55 | -0 | 1192 | 109 | 0 | -0 | 5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1G | 55 | -0 | -1891 | -144 | 0 | -6 | -5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1H | 55 | -0 | 1192 | -144 | 0 | -6 | 5 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.09 | 0.46 | 0.00 | 0.00 | 16.0 |
| 1I | 55 | -0 | -3917 | 275 | 0 | 4 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.31 | 1.51 | 5.46 | 0.00 | 16.0 |
| 1J | 55 | -0 | 3218 | 275 | 0 | 4 | 12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.25 | 1.24 | 4.49 | 0.00 | 16.0 |
| 1K | 55 | -0 | -3917 | -310 | 0 | -10 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.31 | 1.51 | 5.46 | 0.00 | 16.0 |
| 1L | 55 | -0 | 3218 | -310 | 0 | -10 | 12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.25 | 1.24 | 4.49 | 0.00 | 16.0 |
| 1M | 55 | -0 | -3917 | 275 | 0 | 4 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.31 | 1.51 | 5.46 | 0.00 | 16.0 |
| 1N | 55 | -0 | 3218 | 275 | 0 | 4 | 12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.25 | 1.24 | 4.49 | 0.00 | 16.0 |
| 1O | 55 | -0 | -3917 | -310 | 0 | -10 | -12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.31 | 1.51 | 5.46 | 0.00 | 16.0 |
| 1P | 55 | -0 | 3218 | -310 | 0 | -10 | 12 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.01 | 0.25 | 1.24 | 4.49 | 0.00 | 16.0 |
| 2 | 55 | -0 | -545 | -39 | 0 | -5 | -3 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.00 | 0.04 | 0.21 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 66 | -0 | -1903 | 109 | 0 | -12 | -214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1B | 66 | -0 | 1180 | 109 | 0 | -12 | 136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1C | 66 | -0 | -1903 | -144 | 0 | 10 | -214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1D | 66 | -0 | 1180 | -144 | 0 | 10 | 136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1E | 66 | -0 | -1903 | 109 | 0 | -12 | -214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1F | 66 | -0 | 1180 | 109 | 0 | -12 | 136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1G | 66 | -0 | -1903 | -144 | 0 | 10 | -214 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.10 | 0.15 | 0.73 | 0.00 | 0.00 | 16.0 |
| 1H | 66 | -0 | 1180 | -144 | 0 | 10 | 136 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1I | 66 | -0 | -3929 | 275 | 0 | -27 | -444 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.31 | 1.51 | 5.48 | 0.00 | 16.0 |
| 1J | 66 | -0 | 3206 | 275 | 0 | -27 | 365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.25 | 1.23 | 4.47 | 0.00 | 16.0 |
| 1K | 66 | -0 | -3929 | -310 | 0 | 24 | -444 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.31 | 1.51 | 5.48 | 0.00 | 16.0 |
| 1L | 66 | -0 | 3206 | -310 | 0 | 24 | 365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.25 | 1.23 | 4.47 | 0.00 | 16.0 |
| 1M | 66 | -0 | -3929 | 275 | 0 | -27 | -444 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.31 | 1.51 | 5.48 | 0.00 | 16.0 |
| 1N | 66 | -0 | 3206 | 275 | 0 | -27 | 365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.25 | 1.23 | 4.47 | 0.00 | 16.0 |
| 1O | 66 | -0 | -3929 | -310 | 0 | 24 | -444 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.20 | 0.31 | 1.51 | 5.48 | 0.00 | 16.0 |
| 1P | 66 | -0 | 3206 | -310 | 0 | 24 | 365 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.16 | 0.25 | 1.23 | 4.47 | 0.00 | 16.0 |
| 2 | 66 | -0 | -561 | -39 | 0 | -1 | -64 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.03 | 0.04 | 0.22 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 77 | -0 | -1915 | 109 | 0 | -24 | -424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.15 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1B | 77 | -0 | 1168 | 109 | 0 | -24 | 265 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1C | 77 | -0 | -1915 | -144 | 0 | 25 | -424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.15 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1D | 77 | -0 | 1168 | -144 | 0 | 25 | 265 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1E | 77 | -0 | -1915 | 109 | 0 | -24 | -424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.15 | 0.74 | 0.00 | 0.00 | 16.0 |
| 1F | 77 | -0 | 1168 | 109 | 0 | -24 | 265 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1G | 77 | -0 | -1915 | -144 | 0 | 25 | -424 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.19 | 0.15 | 0.74 | 0.00 | 0.00 | 16.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1H | 77 | -0 | 1168 | -144 | 0 | 25 | 265 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.12 | 0.09 | 0.45 | 0.00 | 0.00 | 16.0 |
| 1I | 77 | -0 | -3941 | 275 | 0 | -57 | -876 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.39 | 0.31 | 1.51 | 5.50 | 0.00 | 16.0 |
| 1J | 77 | -0 | 3194 | 275 | 0 | -57 | 717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.32 | 0.25 | 1.23 | 4.45 | 0.00 | 16.0 |
| 1K | 77 | -0 | -3941 | -310 | 0 | 58 | -876 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.39 | 0.31 | 1.51 | 5.50 | 0.00 | 16.0 |
| 1L | 77 | -0 | 3194 | -310 | 0 | 58 | 717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.32 | 0.25 | 1.23 | 4.45 | 0.00 | 16.0 |
| 1M | 77 | -0 | -3941 | 275 | 0 | -57 | -876 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.39 | 0.31 | 1.51 | 5.50 | 0.00 | 16.0 |
| 1N | 77 | -0 | 3194 | 275 | 0 | -57 | 717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.32 | 0.25 | 1.23 | 4.45 | 0.00 | 16.0 |
| 1O | 77 | -0 | -3941 | -310 | 0 | 58 | -876 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.39 | 0.31 | 1.51 | 5.50 | 0.00 | 16.0 |
| 1P | 77 | -0 | 3194 | -310 | 0 | 58 | 717 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.32 | 0.25 | 1.23 | 4.45 | 0.00 | 16.0 |
| 2 | 77 | -0 | -577 | -39 | 0 | 3 | -126 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.06 | 0.05 | 0.22 | 0.00 | 0.00 | 16.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 16.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 88 | -0 | -1928 | 109 | 0 | -36 | -635 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.15 | 0.74 | 0.00 | 0.00 | 5.0 |
| 1B | 88 | -0 | 1156 | 109 | 0 | -36 | 392 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1C | 88 | -0 | -1928 | -144 | 0 | 41 | -635 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.15 | 0.74 | 0.00 | 0.00 | 5.0 |
| 1D | 88 | -0 | 1156 | -144 | 0 | 41 | 392 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1E | 88 | -0 | -1928 | 109 | 0 | -36 | -635 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.15 | 0.74 | 0.00 | 0.00 | 5.0 |
| 1F | 88 | -0 | 1156 | 109 | 0 | -36 | 392 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1G | 88 | -0 | -1928 | -144 | 0 | 41 | -635 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.28 | 0.15 | 0.74 | 0.00 | 0.00 | 5.0 |
| 1H | 88 | -0 | 1156 | -144 | 0 | 41 | 392 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.17 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1I | 88 | -0 | -3953 | 275 | 0 | -87 | -1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.58 | 0.31 | 1.52 | 5.51 | 0.00 | 5.0 |
| 1J | 88 | -0 | 3182 | 275 | 0 | -87 | 1068 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.25 | 1.22 | 4.44 | 0.00 | 5.0 |
| 1K | 88 | -0 | -3953 | -310 | 0 | 92 | -1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.58 | 0.31 | 1.52 | 5.51 | 0.00 | 5.0 |
| 1L | 88 | -0 | 3182 | -310 | 0 | 92 | 1068 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.25 | 1.22 | 4.44 | 0.00 | 5.0 |
| 1M | 88 | -0 | -3953 | 275 | 0 | -87 | -1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.58 | 0.31 | 1.52 | 5.51 | 0.00 | 5.0 |
| 1N | 88 | -0 | 3182 | 275 | 0 | -87 | 1068 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.25 | 1.22 | 4.44 | 0.00 | 5.0 |
| 1O | 88 | -0 | -3953 | -310 | 0 | 92 | -1311 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.58 | 0.31 | 1.52 | 5.51 | 0.00 | 5.0 |
| 1P | 88 | -0 | 3182 | -310 | 0 | 92 | 1068 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.25 | 1.22 | 4.44 | 0.00 | 5.0 |
| 2 | 88 | -0 | -592 | -39 | 0 | 8 | -190 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.08 | 0.05 | 0.23 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 99 | -0 | -1940 | 109 | 0 | -48 | -848 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1B | 99 | -0 | 1144 | 109 | 0 | -48 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.23 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1C | 99 | -0 | -1940 | -144 | 0 | 57 | -848 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1D | 99 | -0 | 1144 | -144 | 0 | 57 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.23 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1E | 99 | -0 | -1940 | 109 | 0 | -48 | -848 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1F | 99 | -0 | 1144 | 109 | 0 | -48 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.23 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1G | 99 | -0 | -1940 | -144 | 0 | 57 | -848 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.38 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1H | 99 | -0 | 1144 | -144 | 0 | 57 | 519 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.23 | 0.09 | 0.44 | 0.00 | 0.00 | 5.0 |
| 1I | 99 | -0 | -3965 | 275 | 0 | -118 | -1746 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.77 | 0.31 | 1.52 | 5.53 | 0.00 | 5.0 |
| 1J | 99 | -0 | 3169 | 275 | 0 | -118 | 1417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.25 | 1.22 | 4.42 | 0.00 | 5.0 |
| 1K | 99 | -0 | -3965 | -310 | 0 | 126 | -1746 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.77 | 0.31 | 1.52 | 5.53 | 0.00 | 5.0 |
| 1L | 99 | -0 | 3169 | -310 | 0 | 126 | 1417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.25 | 1.22 | 4.42 | 0.00 | 5.0 |
| 1M | 99 | -0 | -3965 | 275 | 0 | -118 | -1746 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.77 | 0.31 | 1.52 | 5.53 | 0.00 | 5.0 |
| 1N | 99 | -0 | 3169 | 275 | 0 | -118 | 1417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.25 | 1.22 | 4.42 | 0.00 | 5.0 |
| 1O | 99 | -0 | -3965 | -310 | 0 | 126 | -1746 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.77 | 0.31 | 1.52 | 5.53 | 0.00 | 5.0 |
| 1P | 99 | -0 | 3169 | -310 | 0 | 126 | 1417 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.63 | 0.25 | 1.22 | 4.42 | 0.00 | 5.0 |
| 2 | 99 | -0 | -608 | -39 | 0 | 12 | -256 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.11 | 0.05 | 0.23 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 110 | -0 | -1952 | 109 | 0 | -60 | -1062 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1B | 110 | -0 | 1132 | 109 | 0 | -60 | 644 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1C | 110 | -0 | -1952 | -144 | 0 | 73 | -1062 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1D | 110 | -0 | 1132 | -144 | 0 | 73 | 644 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1E | 110 | -0 | -1952 | 109 | 0 | -60 | -1062 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1F | 110 | -0 | 1132 | 109 | 0 | -60 | 644 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1G | 110 | -0 | -1952 | -144 | 0 | 73 | -1062 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.47 | 0.15 | 0.75 | 0.00 | 0.00 | 5.0 |
| 1H | 110 | -0 | 1132 | -144 | 0 | 73 | 644 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.29 | 0.09 | 0.43 | 0.00 | 0.00 | 5.0 |
| 1I | 110 | -0 | -3978 | 275 | 0 | -148 | -2183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.97 | 0.31 | 1.53 | 5.55 | 0.00 | 5.0 |
| 1J | 110 | -0 | 3157 | 275 | 0 | -148 | 1765 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.78 | 0.25 | 1.21 | 4.40 | 0.00 | 5.0 |
| 1K | 110 | -0 | -3978 | -310 | 0 | 160 | -2183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.97 | 0.31 | 1.53 | 5.55 | 0.00 | 5.0 |
| 1L | 110 | -0 | 3157 | -310 | 0 | 160 | 1765 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.78 | 0.25 | 1.21 | 4.40 | 0.00 | 5.0 |
| 1M | 110 | -0 | -3978 | 275 | 0 | -148 | -2183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.97 | 0.31 | 1.53 | 5.55 | 0.00 | 5.0 |
| 1N | 110 | -0 | 3157 | 275 | 0 | -148 | 1765 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.78 | 0.25 | 1.21 | 4.40 | 0.00 | 5.0 |
| 1O | 110 | -0 | -3978 | -310 | 0 | 160 | -2183 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.97 | 0.31 | 1.53 | 5.55 | 0.00 | 5.0 |
| 1P | 110 | -0 | 3157 | -310 | 0 | 160 | 1765 | 3.08 | 3.08 | 3.08 | 3.08 | 0.18 | 0.78 | 0.25 | 1.21 | 4.40 | 0.00 | 5.0 |
| 2 | 110 | -0 | -624 | -39 | 0 | 16 | -324 | 3.08 | 3.08 | 3.08 | 3.08 | 0.17 | 0.14 | 0.05 | 0.24 | 0.00 | 0.00 | 5.0 |

apost= --  aant= --  ainf= --  asup= --  staffe= 2 d  8 / 5.0  ( e armatura base = 4 X 1.54 )

L E G E N D A

| Prima asta | Ultima asta | Nome disegno | Descrizione disegno |
|---|---|---|---|
| 19 | 20 | trave_4804_IP1.ARM | Trave_48 |
| 21 | 21 | trave_4803_IP1.ARM | Trave_48 |
| 22 | 22 | trave_4802_IP1.ARM | Trave_48 |

Lavoro: **Progetto QM al 16-7** Intestazione lavoro: **Progetto**
Elemento: **TRAVE** Gruppo: **48** Tabella: **Travi scala**
Descrizione: **travi scala 1p**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm$^2$ fyk: **4580.0** kg/cm$^2$
Copriferro superiore: **2.0** cm Copriferro inferiore: **2.0** cm Copriferro laterale: **2.0** cm

Asta: **19**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **20**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **21**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile

Asta: **22**

Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile
Avvertenza: profondita' appoggio non determinata
Verifica di punzonamento non eseguibile